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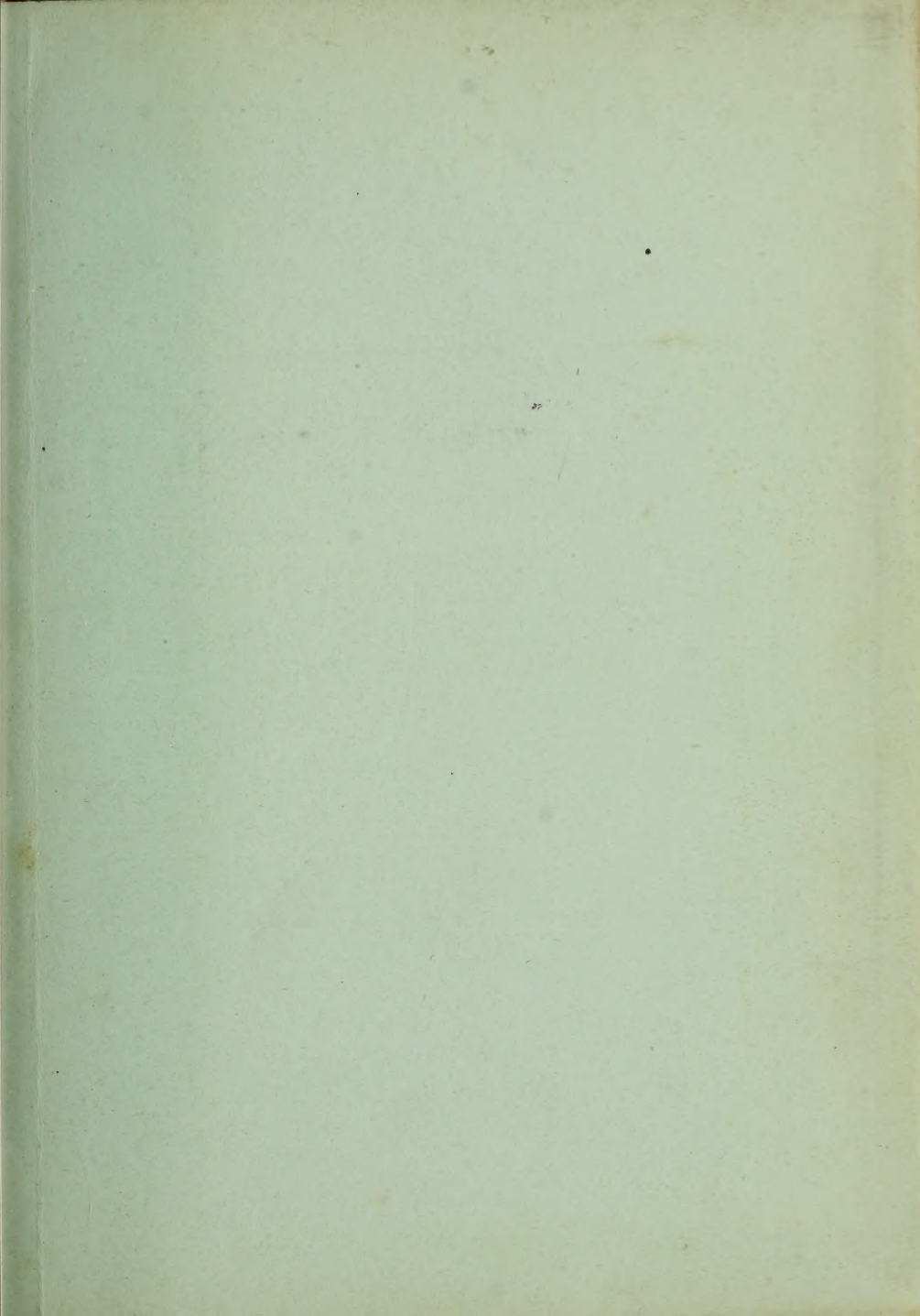
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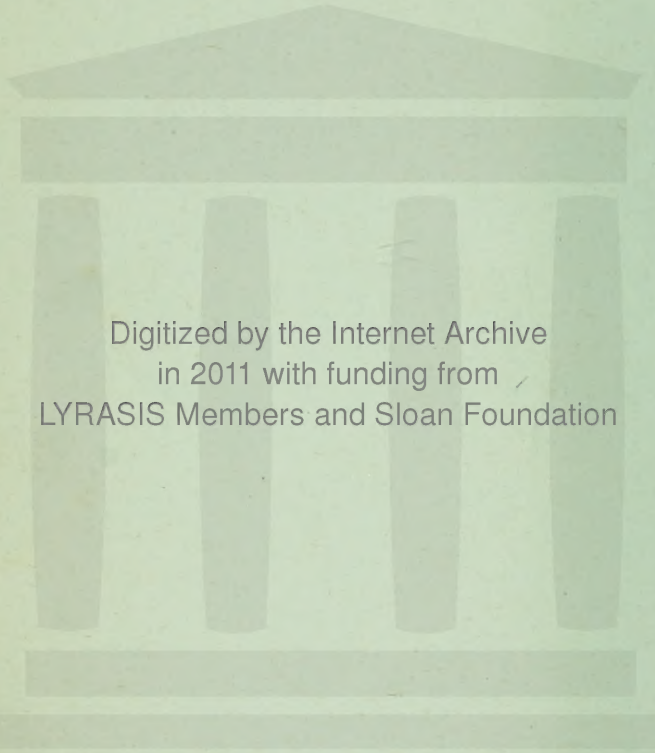
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Haverford College Bulletin

VOL. IX

TENTH MONTH, 1910

No. 1

Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10, 1902, at Haverford, Pa.,
as Second Class Matter under Act of Congress of July 16, 1894.

This is the first number of Volume IX of the HAVERTON COLLEGE BULLETIN. Hitherto it has been issued four or five times a year and has included the regular publications of the College. We shall add to this three or four leaflets, of which this is the first, alternating with the larger issues. These are intended to give from an official source the more important College news and ideas.

All of these eight numbers will be sent free to all members of the Haverford Union. This organization it is hoped will accomplish the purpose of bringing into closer association the various elements of College life—faculty, alumni, undergraduates. The building, thanks to the generosity of Alfred Percival Smith, '84, is now completed and by the aid of Frederic H. Strawbridge, '87, and other friends is largely furnished. Its public opening was on Commencement Day, on the tenth of last June, when the alumni meeting was held there. The membership now amounts to about 250, a satisfactory beginning. But it is believed that many others will soon be added. Membership is of three sorts—

Active membership, \$2.50 a year.

Associate membership, \$1.50 a year.

Non-resident membership, \$1.00 a year.

Besides these there is life membership at \$50, of which seventeen have taken advantage. Only active and life members take part in the government. The Treasurer is Dr. A. G. H. Spiers, Haverford, Pa.

It is recognized that some of the members will be too distant to keep fully in touch with College doings, hence the free issuance to them of this periodical.

The Union has received during the summer a gift of a fine oil painting of a Norway scene about six feet by four. The donor is Henry Pettit and is in memory of his friend, George Warder Bacon, '64, recently deceased.

Mr. Smith has also largely furnished his end of the buildings with pictures and publications of great historic interest.

Owing to the departure of Professor Jackson and the release for one year of Professors Pratt and Baker, there are three new men in the Faculty this year. Assistant Professor Albert H. Wilson comes to us from the Alabama Technical Institute, where he has been professor for five years. Prior to this he has been instructor in Princeton and graduate student of the University of Chicago. Among the services he will perform will be the effective reopening of our excellent Observatory. John Paul Givler in Biology is fresh from graduate study at Johns Hopkins, having previously taught in colleges in Minnesota and Kansas. Henry J. Cadbury, '03, in Greek, has been three years a teacher at Westtown School and as long a student of the Harvard Graduate School.

Jonathan Force, A.B., of Columbia, is assistant in the Chemical Laboratory, and Alfred L. Atwood, A.B., of Amherst, is assistant in the Department of Physical Training.

This last appointment is an addition to the teaching force and indicates an advance in our ideas in this field. At present he is coaching the football team, but the whole significance of his duties may not be immediately apparent. In many colleges, and the larger the college the greater the difficulty, the physical exercise is very violent for the teams and amounts to nothing for the others. During the football season a large portion of the students stands on the side lines and cheers the few players.

This may be exhilarating, but is hardly serious enough for a boy of college age. It is proposed at Haverford to try to take advantage of our country location and small numbers and have many students physically engaged at reasonable hours. We hope this will be done, not by compulsion, but by the supply of equipment and other inducements in the shape of varied games adapted to different conditions. The object in view will be health and habits rather than match games. Dr. Babbitt will work out the system, which will necessarily be slow in attainment and Mr. Atwood is expected to be a valuable assistant. It is in reality to be the intimate correlation of games and physical training, an undertaking never fully developed in colleges and which Haverford has peculiar opportunities to bring about.

The Freshman Class at the date of writing apparently numbers 44, and there are nine new admissions to the upper classes. The total number of students in College is about 150. The faculty contains eight professors regularly engaged in teaching, four associate professors, one lecturer, four instructors and three assistants. There are also a President, a Librarian, a Dean, a Registrar and a Superintendent, some of whom do not teach, making in all a force of twenty-two officials. The custom which the Faculty has recently adopted of requiring that a student with a certain number of failures in examinations should take rank with the class below makes it difficult at present to give the numbers in the different classes.

The year opens with the teaching force in good physical condition for work, except that Dean Palmer has had an accident in the Cambridge Laboratory, from which he fortunately escaped with only a temporary damage to his eyes, and Dr. Hancock has been suffering from a nervous breakdown from which he has largely recovered.

The question is often put to the President, "Why do you not stop hazing at Haverford?" The practice of

recent years has been rather a folly than a danger, but it is something which is always peculiarly liable to abuse. The President would be glad to see it stopped, but it has been increasingly his policy to allow public sentiment to correct abuses rather than have the correction applied by disciplinary force from above. Nevertheless there are cases when a class finds itself through the operation of a tradition enforced by certain alumni and older undergraduates unable to do as it would wish to do, and a Faculty decree is welcome as a shield behind which to carry out its wishes. Signs are appearing which indicate that we are approaching this situation at Haverford.

There are some valid excuses for hazing a few Freshmen. No one wants the lowest class to act as if it was the principal factor in the College. But the remedy is out of all proportion to the offence, and can easily be superseded by a better one.

The practice is disappearing each year from colleges. The movement will strike Haverford soon by one method or the other.

The new Hall for Chemistry will probably be completed near New Year. The subscriptions from about three hundred contributors amount to over \$40,000, which will nearly complete the bare building. Some \$10,000 or \$15,000 more will be needed to make a complete equipment, and then this department will be prepared for many years to come. Should any Haverfordian reading this feel drawn to extend further aid, the money may be sent to the Treasurer of the College, A. S. Wing, 409 Chestnut street, Philadelphia.

When the move is made into the new hall, the old chemical quarters can be used to increase the facilities for the physical and biological work. This will hardly be permanently a satisfactory arrangement, but will answer our conditions for the near future. The new hall will also supply a great need of the college in giving us a large room for recitations and lectures which will be available for other than scientific courses.

HAVERFORD COLLEGE BULLETIN

VOL. IX

TENTH MONTH, 1910

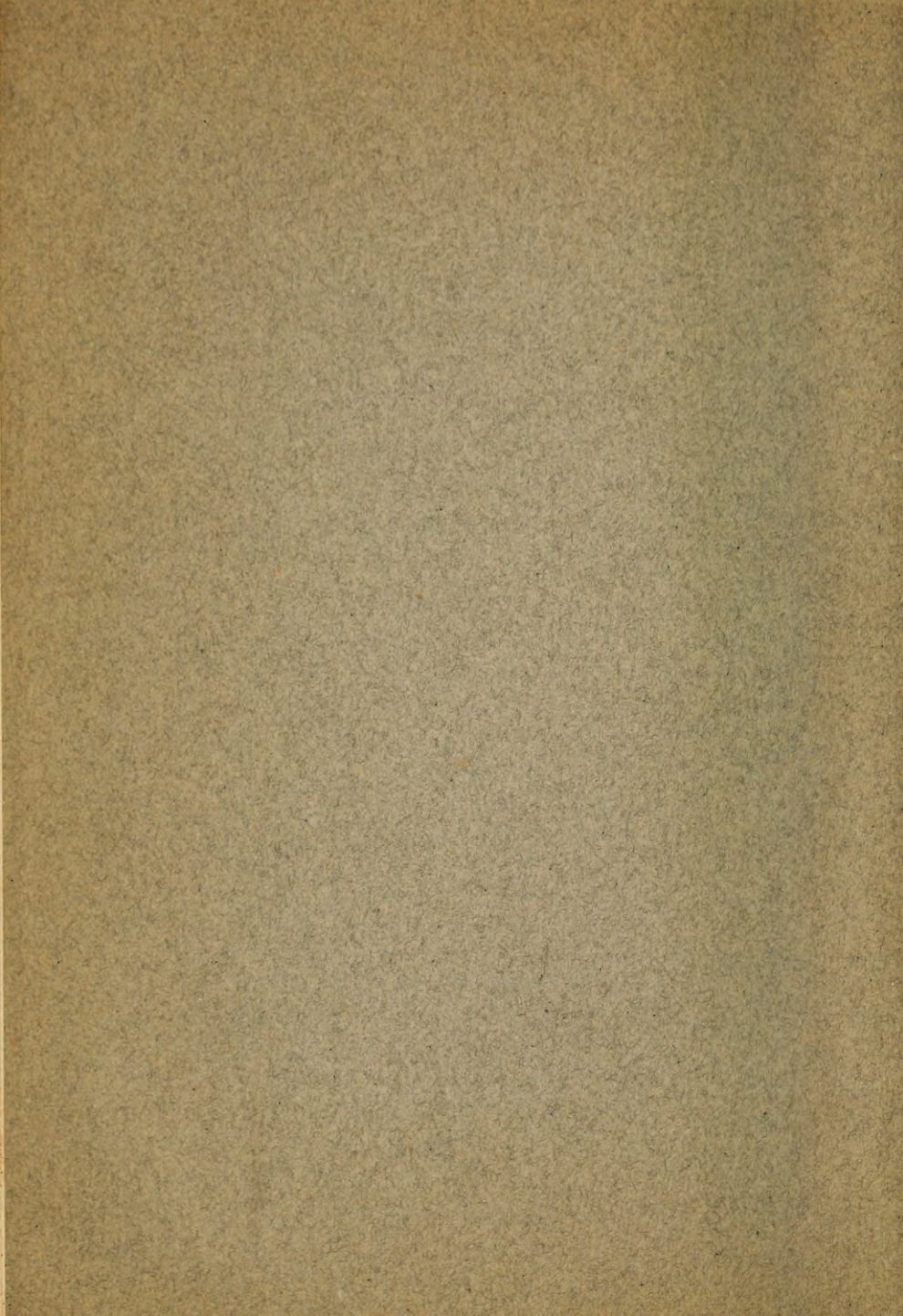
No. 2

Reports of the Board of Managers
President of the College and
Treasurer of the Corporation
1909-1910



Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10, 1902, at Haverford, Pa.,
as Second Class Matter under the Act of Congress of July 16, 1894



THE CORPORATION
OF
HAVERFORD COLLEGE

REPORTS OF
BOARD OF MANAGERS
PRESIDENT OF THE COLLEGE
TREASURER OF THE CORPORATION

PRESENTED AT THE ANNUAL MEETING
TENTH MONTH 11TH, 1910

THE JOHN C. WINSTON COMPANY
PHILADELPHIA

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T. WISTAR BROWN.....235 Chestnut St., Philadelphia

Secretary.

J. STODDELL STOKES.....1011 Diamond St., Philadelphia

Treasurer.

ASA S. WING.....409 Chestnut St., Philadelphia.

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T. WISTAR BROWN, *President*, CHARLES J. RHOADS, *Secretary*,
235 Chestnut St., Phila. Girard Trust Co., Phila.

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JOHN B. GARRETT	GEORGE VAUX, JR.
EDWARD BETTLE, JR.	FREDERIC H. STRAWBRIDGE
JUSTUS C. STRAWBRIDGE	JOHN M. WHITALL
ASA S. WING	CHARLES J. RHOADS

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WILLIAM H. HAINES	J. HENRY SCATTERGOOD
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Committee on Accounts.

FRANCIS STOKES	THOMAS F. BRANSON
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Committee on College Property and Farm.

SAMUEL L. ALLEN	ABRAM F. HUSTON
FRANCIS STOKES	FREDERIC H. STRAWBRIDGE
JOHN M. WHITALL.	

The Chairman of the Board of Managers is *ex-officio* a member of all standing committees.

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President and Professor of Ethics

ALLEN CLAPP THOMAS, A.M.

Librarian and Professor of History

LYMAN BEECHER HALL, PH.D.

John Farnum Professor of Chemistry

FRANCIS BARTON GUMMERE, PH.D., LL.D., LITT.D.

Professor of English Literature

* HENRY SHERRING PRATT, PH.D.

David Scull Professor of Biology

JAMES ADDISON BABBITT, A.M., M.D.

Physical Director and Associate Professor of Physiology

RUFUS MATTHEW JONES, A.M., LITT.D.

Professor of Philosophy

OSCAR MARSHALL CHASE, S.M.

Registrar of the College and Instructor in Drawing

ALBERT SIDNEY BOLLES, PH.D., LL.D.

Lecturer on Commercial Law and Banking

DON CARLOS BARRETT, PH.D.

Professor of Economics

ALBERT ELMER HANCOCK, PH.D.

Professor of English

LEGH WILBER REID, PH.D.

Professor of Mathematics

*WILLIAM WILSON BAKER, PH.D.

Associate Professor of Greek

*Absent 1910-11.

FREDERIC PALMER, JR., A.M.
Dean and Associate Professor of Physics

LEON HAWLEY RITTENHOUSE, M.E.
Associate Professor of Mechanics and Electricity

RICHARD MOTT GUMMERE, PH.D.
Associate Professor of Latin

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ALEXANDER GUY HOLBORN SPIERS, PH.D.
Instructor in Romance Languages

RAYNER WICKERSHAM KELSEY, PH.D.
Instructor in History

CLARENCE ELNATHAN NORRIS, A.M.
Instructor in German

ALBERT HARRIS WILSON, S.M.
Associate Professor of Mathematics

HENRY JOEL CADBURY, A.M.
Instructor in Greek

JOHN PAUL GIVLER, PH.B.
Instructor in Biology

ALFRED LORANUS ATWOOD, A.B.
Instructor in Physical Training

WILLIAM HENRY COLLINS, A.M.
Superintendent of Buildings and Grounds

JONATHAN FORCE, JR., A.B.
Assistant in the Chemical Laboratory

*Absent 1910-11.

ANNUAL REPORT OF THE BOARD OF MANAGERS FOR THE YEAR 1909-1910

To the Corporation of Haverford College:

Your Board of Managers reports that the work of the College has been successfully conducted without any special incident during the past year.

The College has opened this Fall with 150 students, a slight decrease as compared with last year.

The only permanent change in our Faculty is the loss of Prof. Wm. H. Jackson, Associate Professor in Mathematics, who resigned to enter into business in England. His place has been filled by the appointment of A. H. Wilson, M.A., late of Alabama Polytechnic Institute.

In Sixth month last, degrees were granted to thirty-four students who had completed the regular course in Arts or Science; in addition the degree of Master of Arts was conferred on three students who had done advanced work.

We regret to report a further increase in the debt of the Corporation, which now amounts to \$104,308.51, and which is \$5,920.99 more than a year ago. During the year sales of land in West Philadelphia realized \$123,512.50, part of which was used, with the President Sharpless Fund, \$42,500; the William P. Henszey Fund, \$36,000; and the Pliny Earle Chase Memorial Fund, \$4,000; to make up the \$150,000 estimated as necessary to establish a Pension Fund for our Faculty on the same lines as the Carnegie Foundation. The sum of \$5,000 was received as an addition to the John Farnum Brown

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Fund for Bible Study and Religious Teaching. During the year donations amounting to \$32,197.50 were received.

In Sixth month last, the Building presented by Alfred Percival Smith for the use of the Haverford Union was formally opened. Your Board believes that this building will be a great help in the religious and social life of the students.

A wagon and implement building for the farm was erected last Fall, and through the kindness of a friend the farm spring house is being completely renovated.

Early in 1910, work was commenced on the new Science Hall, which is to contain the Chemical Laboratories. The total donations received up to the end of the fiscal year for the Science Hall amounted to \$24,705.81.

For financial details we refer to the report of our Treasurer which follows, and further information on matters which have transpired at the College will be found in the Annual Report of President Sharpless, which is also herewith presented.

It is with a sense of responsibility, as well as gratitude, that the Board reports the many generous gifts made to the College during the year, and hopes that it may be able to so administer them as to promote the best interests of education at Haverford.

We desire to record our appreciation of the faithful services of the Faculty of the College and of the general staff.

By order of the Board,

T. WISTAR BROWN, *President*.

C. J. RHOADS, *Secretary*.

PHILADELPHIA, PA., Tenth month 10th, 1910.

PRESIDENT'S REPORT

To the Board of Managers:

The President reports the register of at- Attendance
tendance during the year 1909-1910 as indicated in the catalog as 158, of which number 52 were new admissions. In 1910-1911 there are at present about 150, of which 53 are new admissions.

The diminution in numbers, if it should prove to be such, results from the elimination of students from the upper classes who were unable or unwilling to do the regular work of the College. Owing to the regulation which the Faculty has recently adopted, that students who had failed in part of their examinations should be placed with the next lower class rather than in the list of special students, it is difficult to give the numbers in each class.

After three years' service at the College, Faculty
Professor William Hartas Jackson resigned Changes
his position in order to go into business in England. He was a mathematician of great ability, and a courteous gentleman, but finally decided that he did not care to adhere to the profession. His place has been filled by Albert Harris Wilson, A.M., who for five

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years past has been Professor of Mathematics in the Alabama Technical Institute. He will also have charge of the Astronomical Observatory.

Dr. Henry Sherring Pratt has been granted a year's leave of absence, and John Paul Givler, Ph.B., recently graduate student in Johns Hopkins University, and with experience in teaching Biology in western colleges, has been appointed to his place.

Dr. William Wilson Baker has also been granted a year's leave of absence, and Henry Joel Cadbury, A.B., A.M., of Haverford College, for three years graduate student in Harvard University, has been appointed to teach Greek and Biblical Literature.

Jonathan Force, A.B., Columbia, is made assistant in the Chemical Laboratory, and Alfred L. Atwood, A.B., Amherst, assistant in the department of Physical Training.

The last appointment is an addition to our force and is made with the hope that this whole department will be made so efficient that every student in the College, sooner or later, will have developed the habit and the spirit of outdoor exercise. The intercollegiate games of the College while frequently of absorbing interest, do not affect the physical life of the bulk of our students. We have increased the facilities for exercise by the creation of tennis courts and otherwise, and the

HAVERFORD COLLEGE.

men in charge of the department will now make efforts to see that it is absolutely efficient.

The lectures and other public affairs for the last collegiate year were as follows: Lectures and
Public Events

Haverford Library Lectures:

"The Newly Found Christian Psalter," by
Dr. J. Rendel Harris, of Woodbrooke, Eng-
land.

3rd mo. 31st, 1910.

"The Heavenly Twins," two lectures by
Dr. J. Rendel Harris. 4th mo. 5th, 1910.
4th mo. 8th, 1910.

The Thomas Shipley Lectures on English
Literature:

"The Distinction Between Inspired and Un-
inspired Poetry," by Hon. Stephen G. Cole-
ridge, M.A., of London, England.

2nd mo. 16th, 1910.

"The Causes Which Produce Epochs of Lit-
erary and Artistic Genius," by the Honorable
James Bryce, British Ambassador.

4th mo. 4th, 1910.

Lectures delivered under the auspices of the
Haverford College Scientific Society:

"Life in the Deep Sea," by Dr. H. S. Pratt.
1st mo. 18th. 1910.

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"The Effects of the Removal of the Cerebral Hemisphere of Pigeons," by R. R. Else, '10.
2nd mo. 8th, 1910.

"An Anomaly in the Caudal Vein and Artery of a Cat," by J. Ashbrook, '11.
2nd mo. 8th, 1910.

"The Friction Skin of Mammals," by J. Phillips, '10.
2nd mo. 8th, 1910.

"Appendicitis," by T. K. Lewis, '09.
3rd mo. 1st, 1910.

"Surface Tension," by P. C. Brewer, '12.
3rd mo. 1st, 1910.

"The Aeroplane," by C. H. Wetzel, '12.
3rd mo. 1st, 1910.

"Radioactivity," by Dr. Arthur W. Goodspeed, of the University of Pennsylvania.
4th mo. 12th, 1910.

"Bird Photography," by A. C. Redfield, '13.
5th mo. 3rd, 1910.

Y. M. C. A. Lectures:

"The Grip of the Labrador," by Edward Balch Barr.

3rd mo. 16th, 1910.

HAVERFORD COLLEGE.

Other Lectures:

"The New Americans and the New Problems," by Professor Edward A. Steiner, of Grinnell College.

3rd mo. 23rd, 1910.

"Chantecler," by A. G. H. Spiers, Ph.D., of Haverford College.

5th mo. 23rd, 1910.

Other Events:

Annual contest in oratory, between the Senior and Junior classes, for the Alumni Prize.

Annual contest in extemporaneous speaking, between the Sophomore and Freshman classes, for the Everett Medal.

5th mo. 17th, 1910.

"L'Eté de la Saint Martin," and "Les Deux Sourds," by the Thursday Afternoon French Class and the students of French IV, Haverford College.

5th mo. 19th, 1910.

Commencement Day. Commencement exercises in Roberts Hall, with address by Dean Frederick S. Jones, of Yale College.

Informal Alumni program. Alumni business meeting.

6th mo. 10th, 1910.

HAVERFORD COLLEGE.

The Haverford Union

During the past year, the Hall of the Haverford Union has been largely furnished and an organization effected. This now includes about 250 members and will be in charge of all the arrangements in the building. Frederic H. Strawbridge and others have made donations of furniture, and Alfred Percival Smith has added a number of old pictures and publications of value. A beautiful oil painting has been presented by Henry Pettit in memory of George Warder Bacon.

Building Improvements

The new barn has been supplemented since last report by smaller structures for farm machinery and stock. The old Spring House has been remodeled and a milk room erected at the barn, through the aid of Samuel L. Allen.

At the urgency of the State Department of Health we have completed a sewage filtration plant which will avoid the pollution of the streams.

Subscriptions for the Chemical Hall have now increased to something over \$40,000, and acting under a minute of the Board, contracts have been let covering the amount. This will nearly finish the building itself, but we should have at least \$10,000 more, properly to furnish and equip it. It will then afford excellent facilities for chemical instruction in all lines for many years to come.

One of the large rooms not now needed for scientific purposes will be converted into a gen-

HAVERFORD COLLEGE.

eral recitation room in other subjects. The removal of the chemical work to this building will leave space which can be occupied by the Physical and Biological Departments and will afford them large facilities for the near future. It would be desirable, as has been contemplated, to tear down the old wing of Founders' Hall which now includes these quarters and erect in the future a new hall which might include equipment for both these sciences. This is not, however, a matter of immediate necessity.

It does not seem to be necessary in the near future to expend as much money in large building improvements as in the recent past. We are now fairly well provided for a college of two hundred. About \$300,000 has been expended for material improvements during the last dozen years. I should hope that the energies and interests of our friends could be diverted towards increasing the ability of the College to give first-rate teaching, for while our salaries average more than in most other colleges, several of our professors are still underpaid, when their real value is considered.

There are, however, two matters of less expensive character which the College greatly needs.

One of these is a hospital for students. At present we have two rooms in the third floor of Founders' Hall given to this purpose.

Building
Needs

HAVERFORD COLLEGE.

These are insufficient in size and furniture, and afford no quarters for a nurse. A small detached building, properly endowed, so that a resident nurse could be always on hand, would be a great boon to many a needy student.

The second matter needing some attention at an early date is an addition to the Library Building. The shelves are now practically full and books are coming in at the rate of two thousand or more a year. It would be possible to crowd the building as already existing by the addition of more cases. A better plan would be the erection of a fire-proof stock-room in which the books less frequently used could be stored in metallic cases placed very close together. By this arrangement a very large number of books could be accommodated in comparatively small space and the expense of such an addition would not be very great.

Pension Fund

Since last report the pension fund has been increased so that its principal is about \$150,000. The recent additions have come from the sale of land belonging to the Jacob P. Jones estate. According to actuarial computations this amount should satisfy our demands in this direction for a good many years. The interest is now being laid aside as an accumulating fund to be used when the demands are great. The rules adopted are practically those instituted by the Carnegie Foundation as follows:

1. Presidents, Deans, Librarians, Profes-

HAVERFORD COLLEGE.

sors, Associate Professors and administrative officers of long tenure whose salaries may be classed with those of Professors and Associate Professors of Haverford College are eligible to retiring allowances and are included under the title "Professor" in the following rules.

2. Professors are given retiring allowances on either of the following schemes:

(a) Based on age.

Any Professor of Haverford College, 65 years of age with not less than 15 years' service as Professors or 25 years' service as Professor and Instructor combined, in Haverford College or other colleges of at least equal rank, shall be entitled to a retiring allowance of \$1,000, increased by \$50 for each \$100 of active pay in excess of \$1,200.

(b) Based on Physical Disability.

Any Professor of Haverford College, who has had 25 years' service as Professor or 30 years as Professor and Instructor combined, in Haverford College or other colleges of at least equal rank and who is physically unfitted for the work of a teacher as shown by medical examination, shall be entitled to a retiring allowance of \$800, increased by \$40 for each \$100 of active pay in excess of \$1,200. For each additional year of service above 25 (or 30 as the case may be) the retiring allowance based on physical disability shall be increased by one per cent of the active pay.

HAVERFORD COLLEGE.

3. The average salary of the last five years shall be considered the active pay.

4. No retiring allowance shall exceed \$3,000.

5. Any person who has been for 10 years the wife of a Professor in actual service may receive during her widowhood one-half of the allowance to which her husband would have been entitled. In case of the death of her husband after the allotted time of service she shall receive one-half of the allowance to which he would have been entitled for disability.

6. A Professor shall retire at the age of 65 unless both the Board of Managers and himself shall agree to continue his active service. No allowance shall be paid to a teacher who continues to give the whole or part of his time to the work of teaching as a member of the instructing staff of a college or technical school or who receives an allowance from another institution granting collegiate pensions.

The Board of Managers of the Corporation of Haverford College retains the power to alter these rules in such a manner as experience may indicate is desirable for the benefit of the whole body of teachers of the College.

**Summer
School**

Last summer a school of religious history had its headquarters at Haverford. The intention was to make it an opportunity for rather serious study along definite lines. The attendance was small, but the friends who

HAVERFORD COLLEGE.

have been most interested in helping it, do not feel that it was a wasted effort. The lecturers and teachers were: Dr. Rufus M. Jones, Dr. George A. Barton, Herbert G. Wood, of Cambridge, England; Dr. G. A. Johnston Ross, Dr. Augustus T. Murray, Henry J. Cadbury and others.

This was preceded by a three days' session of the Friends' Educational Conference of America, which embraced delegates from the most of the Friends schools and colleges.

In addition to the lectures there were a number of well-attended conferences held on Friendly subjects, which were interesting and profitable.

The expenses were borne partly by the income of the special fund created for the purpose, partly by the payment of the students for board, and the balance by the liberality of a donor.

We have received from the donor of the Library collection of Friends' Pamphlets, mentioned in last report, a sum of \$5,000, the income of which is to be used for the maintenance and development of the collection.

During the year ending Ninth month 30th, 1910, there were added to the Library 2,046 volumes, of which 855 were bought, 361 were gifts from various persons, 12 were exchanges for duplicates, 518 came from the United States Government "on deposit," and 300

HAVERFORD COLLEGE.

were periodicals and pamphlets bound. The total number of bound volumes in the library on the above date was 55,508. During the year, 8,026 volumes were withdrawn for use outside the building. Of this number 4,281 were withdrawn by students, 2,375 by members of the Faculty and others connected with the College, 804 by residents on the College grounds and in the neighborhood, and 566 were withdrawn for use over night.

The Library, as usual, is under obligations to a number of friends for gifts.

The Function of Haverford.

The Faculty has adopted various regulations which are intended to demand more exacting and continuous work from the students. These have had a double effect. Many have responded, and some have given up the problem. All such regulations, if wisely enforced, will probably increase the permanent prosperity of the College, though the immediate result may be the loss of some students.

The elective system has been somewhat modified. Instead of a free choice covering one-half the Junior studies and nearly all the Senior, the elections must now be made according to a system. The basis of this is that the subjects which are taken as the principal ones, must be continued at least for two successive years.

Certain disadvantages of the larger universities have had the consideration of their Fac-

HAVERFORD COLLEGE.

ulties in an unusual degree during the past year. Notable communications from the Presidents of Harvard and of Princeton especially have called attention to the promiscuous grouping of students in dormitories and the lack of a democratic feeling which results from club life and artificial social arrangements. From these difficulties Haverford is relieved by its small size and close associations. Snobbishness, on the one hand, and an unpleasant feeling of social inferiority on the other are strikingly absent. The common room for meals and a traditional democracy about the place, are great preservatives. A wholesome social life pervades the College and the serious problems which are now agitating the large institutions give us no concern.

If we can continually improve our scholarship and the vigor of the character which we develop among our students, the Haverford problem will be easily solved. The proper place and function of the College becomes more distinct and certain as the work goes on.

We must have for an aim to encourage the growth among a limited number of young men, of vigorous bodies, scholarly minds, strong characters and a real religious experience.

PUBLICATIONS OF THE FACULTY 1909-1910

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Central Board on Officials, Bulletin No. IV, *Official List*; Bulletin No. V, *Interpretations of the New Football Rules*. October, 1909.

BARRETT, DON C.—Review of "*Organization, Correspondence, Transportation*." (Modern Business, Volume II), by Galloway, Hotchkiss and Mavor. De Bower-Elliott Company, pp. xix, 494. The Economic Bulletin, June, 1910.

BOLLES, ALBERT S.—*The National Bank Act and its Judicial Interpretation* (4th edition). November, 1910, pp. 550. George T. Bisel Company, Philadelphia.

Home Library of Law (2nd edition). Doubleday, Page & Co., New York City, 1910, 6 vols. 12mo.

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HANCOCK, ALBERT E.—Mrs. Gaskell's *Cranford*, edited for the Lake English Classics. Scott, Foresman & Co., Chicago.

The French Revolution and the English Poets (2nd edition). Henry Holt & Co.

JACKSON, W. H.—*A Chapter in Elementary Trigonometry*. School Science and Mathematics, December, 1909.

The Integral Roots of Certain Inequalities. Annals of Mathematics, April, 1910.

The Solution of an Integral Equation Occurring in the Theory of Radiation. Bulletin of the American Mathematical Society, June, 1910.

A Simplification in Elementary Trigonometry. The Mathematics Teacher, June, 1910.

Review of Cox's Mechanics. Bulletin of the American Mathematical Society, July, 1910.

The Theory of Shadow Rails. Annals of Mathematics, July, 1910.

Periodic Decimal Fractions. Annals of Mathematics, October, 1910.

JONES, RUFUS M.—*Ethical and Spiritual Message of T. H. Green*. Friends' Quarterly Examiner, January, 1910, pp. 33-51.

Studies in Mystical Religion (2nd edition). Macmillan Company, London, pp. 500.

KELSEY, RAYNER W.—*The United States Consulate in California*. Academy of Pacific Coast History, June, 1910, pp. 107.

Beginnings in Oregon. American Friend, July 7, 28, and August 18, 1910, pp. 11.

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PRATT, HENRY S.—*The Trematodes and Cestodes of Tortugas*. Yearbook No. 8, Carnegie Institution of Washington, p. 132.

The Cuticula and Subcuticula of Trematodes and Cestodes. American Naturalist, Vol. 43, p. 705.

Parallel Development in Tropical Trematodes. Science, N. S., Vol. 31, p. 471.

Monocotyle floridana, a new monogenetic Trematode. Publication No. 133 of The Carnegie Institution of Washington.

REID, LEGH W.—*The Elements of the Theory of Algebraic Numbers*. The Macmillan Company, 1910, pp. xix, 454.

SHARPLESS, ISAAC.—*Selections from the Works of William Penn with an Introduction*. J. T. Headley & Co., London, 1910.

The Temptation of a College President. Educational Review, September, 1910.

SPIERS, A. G. H.—*"Vita Nuova" and "Dolce Stil Nuovo"*. Modern Language Notes, February, 1910.

"Dolce Stil Nuovo." Case of the Opposition. Report of the Annual Meeting of the Modern Language Association, December, 1909.

"Vita Nuova." Chapters 24-28. Haverford Essays, 1909.

SUMMARY OF THE ACCOUNTS OF THE TREASURER OF THE CORPORATION OF HAVERFORD COLLEGE

For the Year ending Eighth mo. 31st, 1910

RECEIPTS.

Income from investments:

General Endowment Fund.....	\$4,614.00
Thomas P. Cope Fund.....	275.38
Edward Yarnall Fund.....	245.64
Alumni Library Fund.....	709.18
Isaiah V. Williamson Fund.....	968.93
John Farnum Memorial Fund.....	1,908.95
John M. Whitall Fund.....	428.65
Richard T. Jones Scholarship Fund.....	225.00
David Scull Fund.....	2,027.96
Edward L. Scull Fund.....	491.84
Wistar Morris Memorial Fund.....	208.26
Mary Farnum Brown Library Fund.....	1,629.75
Mary M. Johnson Scholarship Fund.....	371.06
Sarah Marshall Scholarship Fund.....	353.21
Israel Franklin Whitall Fund.....	153.67
Jacob P. Jones Endowment Fund.....	31,044.18
Clementine Cope Fellowship Fund.....	1,232.01
John Farnum Brown Fund for Bible Study, etc.	5,940.72
Ellen Waln Fund.....	508.58
Clementine Cope Endowment Fund.....	1,072.55
Thomas Shipley Fund	229.50
Elliston P. Morris Fund	46.75

HAVERFORD COLLEGE.

Joseph E. Gillingham Fund.....	\$ 2,449.79
The President Sharpless Fund.....	1,939.62
Henry Norris Fund.....	217.37
John B. Garrett Reading Prize Fund.....	98.00
William P. Henszey Fund.....	1,646.21
Jacob P. Jones Benefit Fund.....	884.58
Pliny Earle Chase Memorial Fund	186.10
Special Endowment Fund.....	490.00
Special Library Fund	122.50
	<hr/> \$ 62,719.94
Board and tuition, cash.....	\$ 48,000.81
Scholarships	13,925.00
	<hr/> \$ 61,925.81
Board of professors.....	959.25
Rents	3,118.75
Farm	632.59
Stationery, etc.	804.06
Income credited to Contingent Account.....	693.46
Receipts for account of previous years.....	1,209.78
Proceeds of land sold for account of Jacob P. Jones Fund	123,512.30
Board and tuition for 1910-1911.....	1,989.30
Donations:	
New Science Hall.....	\$18,259.06
Increase of John Farnum Brown Fund...	5,000.00
Special Library Fund.....	5,000.00
Summer School Expenses.....	1,015.41
Library Floor Improvements.....	411.31
Fellowship and Scholarship.....	600.00
William Penn Portrait.....	269.00
North Vestibule of Library.....	750.00
Salaries	650.00
Books, Prizes, etc.....	242.72
	<hr/> \$ 32,197.50
Money borrowed temporarily.....	\$147,000.00
Investments realized:	
General Endowment Fund.....	\$ 9,400.00

HAVERFORD COLLEGE.

Edward Yarnall Fund	\$ 1,000.00	
Alumni Library Fund.....	2,500.00	
Isaiah V. Williamson Fund.....	4,466.66	
John Farnum Memorial Fund.....	1,000.00	
Mary Farnum Brown Library Fund....	4,250.00	
Israel Franklin Whittall Fund.....	8,000.00	
Jacob P. Jones Endowment Fund.....	69,706.95	
The President Sharpless Fund.....	6,000.00	
	<hr/>	\$106,323.61
Balance on hand Eighth month 31st, 1909:		
In hands of the President.....	\$ 1,609.34	
In hands of the Treasurer.....	429.95	
	<hr/>	2,039.29
		<hr/>
		\$545,125.64

PAYMENTS.

Salaries	\$ 49,935.00
Provisions	19,112.26
Wages	12,074.66
Repairs and improvements.....	6,928.01
Fuel and lights.....	5,833.73
Interest	3,797.59
Family expenses and furniture.....	2,354.14
Lawn and garden.....	2,229.07
Taxes	1,789.84
Incidentals	648.19
Scientific equipment	1,139.72
Gymnasium and athletics.....	271.39
Printing and advertising	1,300.62
Insurance	\$ 1,337.51
Books, etc., from income Alumni Library Fund	890.88
Books, etc., from income Mary Farnum Brown Library Fund	1,119.02
Lectures from income Mary Farnum Brown Library Fund	500.00
Lectures from income Thomas Shipley Fund	300.00

HAVERFORD COLLEGE.

Annuity from income Pliny Earle Chase Memorial Fund	\$ 100.00
Toward expenses of Summer School from income Special Endowment Fund.....	540.00
Books, etc., from income Special Library Fund	80.92
Alterations to President Sharpless' house..	2,818.12
Implement shed	2,567.90
	<hr/> \$117,668.57

Scholarships and Fellowships:

Income General Endowment Fund.....	\$ 1,500.00
Income Thomas P. Cope Fund.....	300.00
Income Edward Yarnall Fund.....	300.00
Income Isaiah V. Williamson Fund.....	900.00
Income Richard T. Jones Scholarship Fund	225.00
Income Mary M. Johnson Scholarship Fund	300.00
Income Sarah Marshall Scholarship Fund	300.00
Income Jacob P. Jones Endowment Fund	9,200.00
Income Clementine Cope Fellowship Fund	500.00
Income Joseph E. Gillingham Fund.....	800.00
	<hr/> \$ 14,325.00

Paid out of special donations:

New Science Hall.....	\$ 8,253.55
Library Floor Improvement	468.31
North Vestibule Library.....	750.00
Summer School Expenses.....	1,015.41
Salaries	650.00
Fellowship and Scholarship.....	600.00
William Penn Portrait.....	500.00
Books, Prizes, etc.	222.02
	<hr/> \$ 12,459.29

Paid temporarily on account of loans, using funds awaiting investment\$172,500.00

Investments:

General Endowment Fund.....	\$ 8,500.00
Edward Yarnall Fund	1,000.00
Alumni Library Fund	2,500.00

HAVERFORD COLLEGE.

Isaiah V. Williamson Fund	\$ 1,000.00	
Edward L. Scull Fund	2,500.00	
Mary Farnum Brown Library Fund.....	3,000.00	
Israel Franklin Whittall Fund.....	8,000.00	
Jacob P. Jones Endowment Fund.....	127,000.00	
John Farnum Brown Fund for Bible Study, etc.	5,000.00	
The President Sharpless Fund	6,000.00	
William P. Henszey Fund.....	1,500.00	
Jacob P. Jones Benefit Fund.....	55,250.00	
Special Library Fund	5,000.00	
	<hr/>	\$226,250.00
Balance on hand Eighth month 31, 1910:		
In the hands of the President	\$ 1,000.48	
In the hands of the Treasurer.....	922.30	
	<hr/>	\$ 1,922.78
		<hr/>
		\$545,125.64

FINANCIAL STATEMENT

For the Year ending Eighth month 31, 1910.

Expense of running the College, as per Treasurer's Statement	\$117,668.57
Net cash receipts for Board and Tuition, Rents, Farm and from all other sources connected with the business of the College.....	53,515.46
	<hr/>
Leaving a deficiency of.....	\$ 64,153.11
Income from Invested Funds and Donations applicable to Scholarships and running expenses.....	57,022.34
	<hr/>
Leaving net deficiency for the year.....	\$ 7,130.77

REPORT ON EACH FUND

THOMAS P. COPE FUND.

Founded 1842.

Par value of invested funds.....	\$ 6,000.00
Principal uninvested	33.21
	<hr/>
Total fund	\$ 6,033.21
Income on hand at beginning of year.....	\$ 47.41
Income received during the year.....	275.38
	<hr/>
	\$ 322.79
Paid for the Thomas P. Cope Scholarships.....	300.00
	<hr/>
Balance on hand at end of the year.....	\$ 22.79

HAVERFORD COLLEGE.

GENERAL ENDOWMENT FUND.

Established 1847 and increased from time to time since.

Par value of invested funds.....	\$102,500.00
Principal uninvested	1,440.82
<hr/>	
Total fund	\$103,940.82
Income received during the year.....	\$ 4,614.00
Paid for scholarships	\$1,500.00
Paid for general college expenses.....	3,114.00
<hr/>	
	\$ 4,614.00

EDWARD YARNALL FUND.

Founded 1860.

Par value of invested funds.....	\$ 6,100.00
Principal uninvested	47.46
<hr/>	
Total fund	\$ 6,147.46
Income on hand at beginning of year.....	\$ 53.16
Income received during year.....	245.64
<hr/>	
	\$ 298.80
Paid for the Edward Yarnall Scholarships.....	300.00
<hr/>	
Income overdrawn at end of year.....	\$ 1.20

ALUMNI LIBRARY FUND.

Established by the Alumni Association, 1863, increased 1892.

Par value of invested funds	\$ 17,950.00
Principal uninvested	775.37
<hr/>	
Total fund	\$ 18,725.37
Income on hand at beginning of year.....	\$132.21
Income received during the year.....	709.18
<hr/>	
	\$ 841.39
Paid for books, etc.	890.88
<hr/>	
Income overdrawn at end of year.....	\$ 49.49

HAVERFORD COLLEGE.

ISAIAH V. WILLIAMSON FUND.

Founded 1876 and increased 1883.

Par value of invested funds.....	\$ 18,300.00
Principal uninvested	3,485.30
<hr/>	
Total fund	\$ 21,785.30
Income on hand at end of year.....	\$351.16
Income received during the year.....	968.93
<hr/>	
Paid for scholarships	\$ 1,320.09
	900.00
<hr/>	
Income on hand at end of year.....	\$ 420.09

JOHN FARNUM MEMORIAL FUND.

Established 1878, increased by Legacy of Elizabeth H. Farnum in 1899.

Par value of invested funds.....	\$ 38,800.00
Principal uninvested	1,379.30
<hr/>	
Total fund	\$ 40,179.30
Income received during the year.....	1,908.95
Paid toward support of Chair endowed by this fund..	1,908.95

JOHN M. WHITALL FUND.

Founded in 1880.

Par value of invested funds	\$ 10,000.00
Principal uninvested	498.39
<hr/>	
Total fund	\$ 10,498.39
Income received during the year.....	428.65
Appropriated for salaries	428.65

RICHARD T. JONES SCHOLARSHIP FUND.

Founded by Will of Jacob P. Jones, 1885.

Par value of the fund.....	\$ 5,000.00
Income received during the year.....	225.00
Paid for Richard T. Jones Scholarship.....	225.00

HAVERFORD COLLEGE.

DAVID SCULL FUND.

Founded 1885.

Par value of invested funds	\$ 46,000.00
Principal uninvested	658.00
<hr/>	
Total fund	\$ 46,658.00
Income received during the year.....	2,027.96
Paid toward salaries, etc.	2,027.96

EDWARD L. SCULL LEGACY.

Received in 1885.

Par value of invested funds.....	\$ 11,600.00
Principal uninvested	571.57
<hr/>	
Total fund	\$ 12,171.57
Income received during the year.....	491.84
Appropriated for salaries	491.84

WISTAR MORRIS MEMORIAL FUND.

Founded 1892.

Par value of invested funds.....	\$ 5,000.00
Income received during the year.....	208.26
Appropriated for salaries.....	208.26

MARY FARNUM BROWN LIBRARY FUND.

Founded 1892.

Par value of invested funds.....	\$ 32,850.00
Amount uninvested	1,517.08
<hr/>	
Total fund	\$ 34,367.08
Income received during the year.....	1,629.75
Income appropriated for books, etc.	\$1,119.02
Income appropriated for lectures.....	500.00
Income transferred to principal.....	10.73
<hr/>	
	\$ 1,629.75

HAVERFORD COLLEGE.

MARY M. JOHNSON SCHOLARSHIP FUND.

Founded 1897.

Par value of invested funds.....	\$ 8,000.00
Amount uninvested	395.00
<hr/>	
Total fund	\$ 8,395.00
Income on hand at beginning of year.....	\$ 7.28
Income received during the year.....	371.06
	—————\$ 378.34
Paid for Mary M. Johnson Scholarships.....	300.00
<hr/>	
Income on hand at end of year.....	\$ 78.34

SARAH MARSHALL SCHOLARSHIP FUND.

Founded 1897.

Par value of invested funds.....	\$ 7,700.00
Amount uninvested	71.19
<hr/>	
Total fund	\$ 7,771.19
Income on hand at beginning of the year.....	\$ 38.24
Income received during the year.....	353.21
	—————\$ 391.45
Paid for Sarah Marshall Scholarships.....	300.00
<hr/>	
Income on hand at end of year.....	\$ 91.45

ISRAEL FRANKLIN WHITALL FUND.

Founded 1896.

Par value of invested funds	\$ 12,500.00
Amount uninvested	46.87
<hr/>	
Total fund	\$ 12,546.87
Income received during the year	153.67
Appropriated for salaries	153.67

HAVERFORD COLLEGE.

JACOB P. JONES ENDOWMENT FUND.

Founded 1897.

Par value of invested funds	\$693,200.00
Amount uninvested	37,820.29
<hr/>	
Total fund	\$731,020.29
Income received during the year	31,044.18
Appropriated for scholarships	\$ 9,200.00
Appropriated for general expenses	21,844.18
	<hr/> \$ 31,044.18

CLEMENTINE COPE FELLOWSHIP FUND.

Founded 1899.

Par value of invested funds	\$ 24,800.00
Amount uninvested	297.70
<hr/>	
Total fund	\$ 25,097.70
Income on hand at beginning of the year	\$ 441.22
Income received during the year	1,232.01
	<hr/> \$ 1,673.23
Paid for fellowships	500.00
<hr/>	
Income on hand at end of year	\$ 1,173.23

JOHN FARNUM BROWN FUND FOR BIBLE STUDY AND
RELIGIOUS TEACHING.

Founded 1900 and increased later.

Par value of invested funds	\$156,200.00
Amount uninvested	298.38
<hr/>	
Total fund	\$156,498.38
Income received during the year	5,940.72
Income appropriated for salaries, etc.	5,940.72

HAVERFORD COLLEGE

ELLEN WALN FUND.

Founded 1900.

Par value of invested funds	\$ 11,000.00
Amount uninvested	97.10
<hr/>	
Total fund	\$ 11,097.10
Income received during the year	508.58
Income appropriated for general expenses	508.58

CLEMENTINE COPE ENDOWMENT FUND.

Founded 1904.

Par value of invested funds	\$ 31,000.00
Amount uninvested	108.75
<hr/>	
Total fund	\$ 31,108.75
Income received during the year	1,072.55
Income appropriated for general expenses	1,072.55

THOMAS SHIPLEY FUND.

Founded 1904.

Par value of invested funds	\$ 5,000.00
Amount uninvested	225.00
<hr/>	
Total fund	\$ 5,225.00
Income on hand at beginning of the year	\$592.50
Income received during the year	229.50
<hr/>	
Income appropriated for lectures	\$ 822.00
<hr/>	
Income on hand at end of the year	\$ 522.00

NATHAN BRANSON HILL TRUST.

Fund established in 1904, held in trust by Minneapolis Trust Company, Minneapolis, Minn.	
Income received during the year	None.

HAVERFORD COLLEGE.

ELLISTON P. MORRIS FUND.

Founded 1906..

Par value of invested funds	\$ 1,000.00
Amount uninvested	188.75
<hr/>	
Total fund	\$ 1,188.75
Income on hand at beginning of year	\$85.53
Income received during the year	46.75
	<hr/>
	\$ 132.28
Income on hand at end of the year	\$ 132.28

JOSEPH E. GILLINGHAM FUND.

Founded 1907.

Par value of invested funds	\$ 53,000.00
Amount uninvested	117.25
<hr/>	
Total fund	\$ 53,117.25
Income received during the year	2,449.79
Income appropriated for scholarships	\$ 800.00
Income appropriated for general expenses	1,649.79
	<hr/>
	\$ 2,449.79

THE PRESIDENT SHARPLESS FUND.

Founded 1907.

Par value of invested funds	\$ 41,000.00
Amount uninvested	3,093.87
<hr/>	
Total fund	\$ 44,093.87
Income received during year	1,939.62
Income added to principal	\$1,529.75
Income transferred to Haverford College Pen-	
sion Fund	409.87
	<hr/>
	\$ 1,939.62

HAVERFORD COLLEGE.

HENRY NORRIS FUND.

Founded 1907.

Par value of invested funds	\$ 5,000.00
Amount uninvested	534.35
<hr/>	
Total fund	\$ 5,534.35
Income received during year	217.37
Income appropriated for general expenses	217.37

JOHN B. GARRETT READING PRIZE FUND.

Founded 1908.

Par value of fund, all invested	\$ 2,000.00
Income on hand at beginning of year	\$80.15
Income received during the year	98.00
<hr/>	
Income on hand at end of year	178.15
	178.15

WILLIAM P. HENSZEY FUND.

Founded 1908 by Gift. Increased 1909 by Legacy.

Par value of invested funds	\$ 36,500.00
Amount invested	150.60
<hr/>	
Total fund	\$ 36,650.60
Income received during the year	1,646.21
Income added to principal	\$1,160.60
Income transferred to Haverford College Pen- sion Fund	485.61
<hr/>	
	1,646.21

JACOB P. JONES BENEFIT FUND.

Founded 1909 from proceeds of land sold for account
Jacob P. Jones Legacy.

Par value of invested funds	\$ 63,750.00
Amount uninvested	283.21
<hr/>	
Total fund	\$ 64,033.21

HAVERFORD COLLEGE.

Income received during the year.....	\$	884.58
Income added to principal	\$	545.93
Income transferred to the Haverford College Pension Fund		338.65
		<hr/>
		884.58

PLINY EARLE CHASE MEMORIAL FUND.

Founded 1909.

Par value of invested funds	\$	4,000.00
Amount uninvested		255.86
		<hr/>
Total fund	\$	4,255.86
Income received during the year		186.10
Income applied to pay annuity.....	\$100.00	
Income added to principal	81.97	
Income transferred to the Haverford College Pension Fund		4.13
		<hr/>
		186.10

SPECIAL ENDOWMENT FUND.

Founded 1909.

Par value of fund, all invested	\$	12,000.00
Income on hand at beginning of year	\$	50.00
Income received during the year	490.00	
		<hr/>
		540.00
Income appropriated for expenses of Summer School		540.00

SPECIAL LIBRARY FUND.

Founded 1910.

Par value of fund, all invested	\$	5,000.00
Income received during the year		122.50
Expended for books, etc.		80.92
		<hr/>
Income on hand at end of year	\$	41.58

HAVERFORD COLLEGE.

HAVERFORD COLLEGE PENSION FUND.

Founded 1910.

Par value of fund, uninvested and due from the corporation\$ 1,238.26

SUMMARY OF THE FUNDS.

General Endowment Fund	\$ 103,940.82
Thomas P. Cope Fund	6,033.21
Edward Yarnall Fund	6,147.46
Alumni Library Fund	18,725.37
Isaiah V. Williamson Fund	21,785.30
John Farnum Memorial Fund	40,179.30
John M. Whitall Fund	10,498.39
Richard T. Jones Scholarship Fund	5,000.00
David Scull Fund	46,658.00
Edward L. Scull Fund	12,171.57
Wistar Morris Memorial Fund	5,000.00
Mary Farnum Brown Library Fund	34,367.08
Mary M. Johnson Scholarship Fund	8,395.00
Sarah Marshall Scholarship Fund	7,771.19
Israel Franklin Whitall Fund	12,546.87
Jacob P. Jones Endowment Fund	731,020.29
Clementine Cope Fellowship Fund	25,097.70
John Farnum Brown Memorial Fund for Bible Study and Religious Teaching	156,498.38
Ellen Waln Fund	11,097.10
Clementine Cope Endowment Fund	31,108.75
Thomas Shipley Fund	5,225.00
Elliston P. Morris Fund	1,188.75
Joseph E. Gillingham Fund	53,117.25
The President Sharpless Fund	44,093.87
Henry Norris Fund	5,534.35
John B. Garrett Reading Prize Fund	2,000.00
William P. Henszey Fund	36,650.60
Jacob P. Jones Benefit Fund	64,033.21
Pliny Earle Chase Memorial Fund	4,255.86
Special Endowment Fund	12,000.00

HAVERFORD COLLEGE.

Special Library Fund	\$ 5,000.00
Haverford College Pension Fund	1,238.26

Total par value \$1,528,378.93
 being \$140,079.95 more than reported one year ago,
 as follows:

Proceeds of land sold for account of Jacob P. Jones	
Endowment Fund	\$ 123,512.30
Gift to increase the John Farnum Brown Fund for	
Bible Study and Religious Teaching	5,000.00
Gift to establish Special Library Fund	5,000.00
Unused income credited to principal as provided in	
terms of trusts	4,567.24
Premium on bonds sold	1,087.50
Stock dividend Lehigh Coal and Navigation Co. ...	219.45
Income credited to principal for Contingent Account	693.46

Total increase as above\$ 140,079.95

DONATION ACCOUNT.

This account is made up of money donated for special purposes
 and now awaiting application thereto, as follows:

New Science Hall	\$ 16,452.26
Prizes	51.58

\$16,503.84

We have examined the accounts of the Treasurer of The Corporation of Haverford College for the year ending Eighth month 31st, 1910, of which the foregoing is a summary. We have compared his payments with the vouchers therefor, and find the same correct. There was a cash balance in his hands on that date of \$922.30, exclusive of \$1,000.48 in the hands of the President of the College.

{	Signed	}	J. HENRY SCATTERGOOD, MORRIS E. LEEDS, <i>Auditing Committee.</i>
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Philadelphia, Tenth month 7th, 1910.

HAVERFORD COLLEGE.

We have examined the securities belonging to The Corporation of Haverford College, and find them to agree with the foregoing statement of the Treasurer.

{ Signed }	WILLIAM H. HAINES,
	FREDERIC H. STRAWBRIDGE,
	<i>Auditing Committee.</i>

Philadelphia, Tenth month 6th, 1910.

LIST OF GIFTS TO LIBRARY

1909-1910

	VOLS.
Mr. and Mrs. J. S. Bonbright	45
Miss E. B. Chase	25
A. C. Thomas	23
T. Wistar Brown and A. S. Wing	22
Lucy B. Roberts	12
W. C. Alderson	10
A. M. Huntington	10
G. L. Raymond	9
Pennsylvania State Librarian	8
Norman Penney	6
National Prison Association	4
Smithsonian Institution	4
New York State Historian	4
Isaac Sharpless	4
Rufus M. Jones	3
Richard M. Gummere	3
Anonymous	13
And many others each	1

CASH DONATIONS FOR THE YEAR ENDING 8th MONTH 31st, 1910

Anonymous (in bonds)	\$ 5,000.00
Anonymous	10.00
Anonymous	5.00
Thomas F. Bausman	5.00
Albert S. Bolles	4.00
Ellis Y. Brown, Jr.	25.00
T. Wistar Brown	13,698.08
C. H. Carter	25.00
Class of 1887	1,000.00
Class of 1896	20.00
Class of 1897	889.06
Class of 1898	10.00
Class of 1904	50.00
Arthur F. Cocoa	20.00
Francis R. Cope, Jr.	25.00
Harry A. Dominovich	10.00
Evan T. Ellis	10.00
Charles E. Estlack	100.00
John B. Garrett	110.00
Vincent Gilpin	50.00
John C. Green	450.00
Joseph H. Haines	100.00
Edward Y. Hartshorne	25.00
Charles S. Hinchman	100.00
Dr. H. H. Jenks	10.00
Guy R. Johnson	100.00
Morris M. Lee	25.00
Edward L. Macomber	10.00
Alfred Collins Maule	50.00

HAVERFORD COLLEGE.

Alfred Mellor	\$ 200.00
Walter Mellor	25.00
S. Rowland Morgan	10.00
Marriott C. Morris	20.00
William P. Morris	100.00
Gurney E. Newlin	10.00
A. L. Pennock	10.00
Lindley M. Perkins	25.00
Theophilus P. Price	10.00
Evan Randolph	10.00
Charles J. Rhoads	500.00
Dr. Samuel Rhoads	25.00
E. A. Ricks, Jr.	20.00
Legh W. Reid	10.00
Lucy B. Roberts	291.00
L. M. Robinson	5.00
Mrs. T. M. Rogers	5.00
Alfred G. Scattergood	500.00
Harold M. Shabacker	15.00
Dr. Frederic C. Sharpless	25.00
Daniel Smiley	250.00
Alfred Percival Smith	900.00
Dr. Louis Starr	500.00
Frederick H. Strawbridge	5,269.00
Frederick A. Swan	20.00
F. Raymond Taylor	10.00
James B. Thompson	10.00
Henry A. White	10.00
W. M. Wills	25.00
Asa S. Wing	1,171.36
Charles Wood	10.00
Richard D. Wood	10.00
Stuart Wood	250.00
Stanley R. Yarnall	10.00

Total\$ 32,197.50

ANNUAL CONTESTS IN PUBLIC SPEAKING

FOR

THE EVERETT SOCIETY PRIZE

(A Silver Medal)

AND FOR

THE ALUMNI PRIZE IN ORATORY

ROBERTS HALL, FIFTH MONTH 17th, 1910, AT 8 P. M.

DEAN FREDERICK PALMER, JR., Presiding.

Committee of Judges.—Augustus W. Bomberger, Esq., Chairman; Henry S. Borneman, Esq., Ulysses S. Koons, Esq.

Contestants for the Everett Medal in Extemporaneous Speaking.—Subject, "A Plea for a Cause." Joseph Moorhead Beatty, Jr., '13; Paul Clisby Brewer, Jr., '12; Joseph Tatnall, '13; Mark Balderston, '12; Oliver Moore Porter, '13; Joshua Alban Cope, '12.

The contest for the Everett Medal is open to Freshmen and Sophomore. Each contestant is limited to six minutes.

PARKER S. WILLIAMS, ESQ., Presiding.

Committee of Judges.—William Righter Fisher, Esq., Chairman; Mr. Henry S. Williams, Mr. Alba B. Johnson.

Contestants for the Alumni Prize in Oratory.—"The Daily Press and the Republic," William Thomas Boyce; "Democracy in England," Ebenezer Hall Spencer; "The Last Administration," Willard Pyle Tomlinson; "A Statesman of Venice," Lucius Rogers Shero; "The Supremacy of Law," Ralph Roscoe Else; "Brebeuf Among the Hurons," Henry Bernard Stuccator.

The contest for the Alumni Prize is open to Juniors and Seniors. Each contestant is limited to ten minutes.

EXERCISES OF COMMENCEMENT DAY

SIXTH MONTH 10TH, 1910.

ORDER OF EXERCISES.

- 11.00 A. M.—I. Commencement Exercises in Roberts Hall.
1. Introductory remarks by President Sharpless.
2. Announcement of Prizes and Honors.
3. Conferring of Degrees.
4. Address to the Graduates, by Dean Frederick S. Jones, of Yale College.
- 12.15 P. M.—II. Presentation of Cricket Prizes in front of Founders Hall.
- 12.30 P. M.—III. Luncheon on the Lawn.
- 1.30 J. M.—IV. Alumni Cricket Game on Cope Field.
- 3.00 J. M.—V. Alumni Baseball Games on Walton Field and the Front Lawn.
- 4.30 P. M.—VI. Afternoon Tea (for Alumni and Invited Guests) served by the Campus Club in the Mary Newlin Smith Memorial Garden.
- 6.30 P. M.—VII. Alumni Business Meeting in the Haverford Union.
- 7.30 P. M.—VIII. Alumni Supper (for Alumni and Invited Guests) on the Lawn.
- 8.30 P. M.—IX. Singing on Founders Hall steps.

NOTE.—The new Haverford Union was open for inspection from 8.00 A. M. until 11.30 P. M., and the Charles Roberts Collection of Autograph Letters (Roberts Hall) was on exhibition from 9.00 A. M. until 5.00 P. M.

SCHEDULE OF RECITATIONS FOR THE COLLEGIATE YEAR 1909-1910

	8.30	9.30	10.30	11.30	1.30	2.00	3.00
SECOND DAY		Bib. Lit. III English I Bib. Lit. III Bib. Lit. II English II	(Physics III) Econ. VIII Bib. Lit. V French IV Physics VI Chem. IV History IV Greek III English III (Biol. VI) Bib. Lit. I	(German V) English VII Engin. I Astron. I Econ. II Physics A French I Greek I	Chemistry (Govern. II) Engin. IV Latin IV Biol. III Engin. III Greek II French II German I	Govern. III Phil. II and III Biol. IX German II	
THIRD DAY	Econ. III and IV Phil. I Engin. V Biol. X German II Math. Ia', Ib' Math. Ia, Ib	Phil. V Econ. I Physics I Biol. II Latin I	Latin IV Econ. V, VI Geology I Chem. I French A Math. II German A English I	(Greek A) Math. VI Math. IV History III Spanish I Latin II German I	Physics II Physics VII English V Biology III Engin. III Chemistry I French I Greek I	English XII Lab. Lab. Biology I	
FOURTH DAY	Eng. VIII German IV Biol. VIII Engin. IIb Greek II French II Math. Ia', Ib' Math. Ia, Ib	Phil. IV Latin III German III Math. III Math. II English I	Physics III Econ. VIII (Bib. Lit. V) French IV Physics VI Chem. IV History IV Greek III English III (Biol. VI) Math. Id	German V Engin. VII Engin. I Astron. I Econ. II Physics A French I Greek I	Phil. II and III Chemistry Engin. IV Biology IX Engin. III Physics I Biology II Latin I	Econ. IX (Govern. III) Engin. III Lab. History I	
FIFTH DAY	Eng. VIII German IV Biol. VIII Engin. IIb Greek II French II Math. Ia', Ib' Math. Ia, Ib	Phil. IV Latin III German III Math. III Math. II English I	Meeting		Engin. IV (Greek A) Chemistry Math. VI (Eng. X) Engin. III History II Math. IV Spanish I Physics I Latin II German I	French A German A English VIb (Biol. VII) Physics I Latin I	
SIXTH DAY	Econ. III and IV Phil. I Engin. V Biol. X German II Math. Ia', Ib' Math. Ia, Ib	Phil. V Econ. I Physics I Biol. II Latin I	Latin IV Econ. V, VI Geology I Chem. I French A Math. II German A	(Greek A) Math. VI Math. IV History II Spanish I Latin II German I	Physics II Physics VII Eng. VIa Biology III Engin. III Chem I French I Greek I	English XII Lab. Lab. Biology I	
SEVENTH DAY	Engin VI Econ. III Math. Ic Physics I Biol. II Math. Ic	Latin III Math. III Lab. Lab. History I	The following unscheduled courses were offered for 1909-10, the hours for which were arranged to suit the programs of the students electing said courses: Bib. Lit. IV (1); Greek V (1); Greek VI (2); Latin V (1); Latin VI (1); Math. VII-XIV; Phys. VIII (1); Biol. IV (1 or more). Hours enclosed in parentheses () were not offered in 1909-1910. Eng.=English; Engin.=Engineering.				

Haverford College Bulletin

VOL. IX

TWELFTH MONTH, 1910

No. 3.

Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10, 1902, at Haverford, Pa.,
as Second Class Matter under Act of Congress of July 16, 1894

As this number of THE BULLETIN will be sent to Haverfordians who have not received No. 1, it may be well to repeat that eight issues will be mailed free to all members of the Union, and for one dollar a year to all others. Membership is of three grades:

Active membership, \$2.50 a year.

Associate membership, \$1.50 a year.

Non-resident membership, \$1.00 a year.

Life membership, \$50.00.

There are now members as follows:

129 Active.

82 Associate.

59 Non-resident.

19 Life.

These members should be greatly increased in the near future. The treasurer is Dr. A. G. H. Spiers, Haverford, Pa.

The College has had prepared a birds-eye view of the buildings and grounds, a reduced copy of which is enclosed with this. The full picture is 26 x 38 inches, being a photogravure in sepia. It was made in response to a demand for a view of the College which would, better than separate photographs, give a fair picture of our beautiful surroundings. It is hoped that there will be sufficient sale among Haverfordians to recoup the College. Should there be any excess, framed copies will be distributed among schools which prepare for College. Hence purchasers will not only secure the picture, but will aid the College in carrying information to possible students. The picture will be sent to any address for

\$5.00, which may be forwarded to O. M. Chase, Haverford, Pa.

Among recent publications by members of the Faculty may be mentioned the following:

Albert S. Bolles has issued the second edition of his *Home Library of Law*, in six volumes. This is supposed to be a non-technical book for the ordinary business man as well as the lawyer.

Dr. Albert E. Hancock has edited Mrs. Gaskell's *Cranford* for the Lake English Classics, and has published a second edition of *The French Revolution and the English Poets*.

Dr. Rufus M. Jones has issued a second edition of *Studies in Mystical Religion*. This is the first of a series of volumes to cover the history of the origin and development of the Society of Friends in England and America. Another volume giving the colonial history of Friends is in press, the authors being Rufus M. Jones, Amelia M. Gummere, and Isaac Sharpless.

Dr. Rayner W. Kelsey has published articles relating to Pacific Coast History, of which he has made special studies at the University of California.

Dr. Henry S. Pratt has made important biological contributions to the publications of the Carnegie Institute of Washington, D. C.

Dr. Legh W. Reid has published a work of 454 pages, *The Elements of the Theory of Algebraic Numbers*, with an introduction by Dr. Wilbert, the German mathematician. In this introduction he speaks of "the devoted absorption of the author in the theory of numbers and the comprehensive understanding with which he has penetrated into its nature."

Dr. Isaac Sharpless has edited for J. T. Headley & Co., London, *Selections from the Works of William Penn*, for which he has written an Introduction.

Besides these, nearly all of our professors have made contributions to the periodical literature in their special

subjects. Among these should be mentioned Dr. James A. Babbitt, Dr. Don C. Barrett, Dr. Albert S. Bolles, Dr. William H. Jackson, Dr. Rufus M. Jones, Dr. Henry S. Pratt, President Isaac Sharpless, and Dr. A. Guy H. Spiers.

The amount of time to be properly given to this sort of work may be open to question. But it will certainly be admitted that men who have the ability and the spirit to contribute worthy literature to their special subjects are worth more as teachers, provided they do not neglect their teaching, than those whose knowledge has stagnated. Every one who is capable of some original work knows how enticing it is, and that the thought of meeting a class is sometimes an unwelcome interruption. Unfortunately for this idea, the main purpose of our College is teaching and not research. There is something to be said also against the tendency to run into print with some little useless matter, when the man has really no message worth while.

Appreciating all this, it is yet a satisfaction that so meritorious a list represents the annual product of the Haverford Faculty in this direction.

The football season was closed on November 19th with a game with Ursinus College. The results of the season were victories over Temple and Lehigh Universities, ties with Delaware, Rutgers and Franklin and Marshall Colleges, and defeats by Johns Hopkins University and Trinity and Ursinus Colleges. The team did the best it could. In almost all cases it met superior weight and power. What it won was done by the best of spirit, good coaching and physical condition. From this point of view the season was a success. The players seemed to enjoy the game, which has not always been the case, and there is very little to complain of in the matter of unsportsmanlike conduct. There were probably no permanent injuries. Why the football players at other colleges are nearly always heavier than our men is an inter

esting subject. It would perhaps throw some light upon it if it could be ascertained whether this superiority existed throughout the whole student body as well as in the football contingent.

Football in some places deserves the criticisms to which it is subjected. It is sometimes brutal, often unsportsmanlike. It takes from their studies not only players, but others who are expected to inspire the players. It renders possible physical injuries, even when played in its best style. Its indiscriminate crowding makes it comparatively easy to beat the rules and disable opponents. It is the occasion of betting and dissipation. But with all that can be said against it, it is hardly likely to be displaced by any other game, and to spend a gameless autumn at college would be a still worse evil. Its objectionable features may be guarded against, as we have largely proven, by sound athletic morals and wholesome standards. If these features become excessive, the college authorities are probably to be blamed.

A number of our Alumni have approached the President with a request that an arrangement should be made by which they might feel more free to take meals in the dining-room with the students when they make occasional visits to the college. The Union affords a place where they may meet, but no dining facilities. They do not desire to feel that they are infringing on college hospitality by assuming to themselves the right to accept it freely. Hence the request. If an arrangement of the kind proposed will make it more comfortable for Alumni, especially the older ones, to visit the college frequently, it is proposed to establish it. By calling on the Registrar or the President's secretary, meal tickets can be procured by individuals for 35 cents a meal. These may be given to the waiter or left on the table. In case of several desiring meals together arrangements should be made in advance with the Matron. This last suggestion is of great importance.

HAVERFORD COLLEGE BULLETIN

VOL. IX

FIRST MONTH, 1911

No. 4

Catalogue

1910-1911



Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10th, 1902, at Haverford, Pa.,
as Second-Class Matter under Act of Congress of July 16th, 1894



CATALOGUE

OF

Haverford College

1910-1911



HAVERFORD, PA.

Press of
THE JOHN C. WINSTON Co.
Philadelphia, Pa.

CALENDAR.

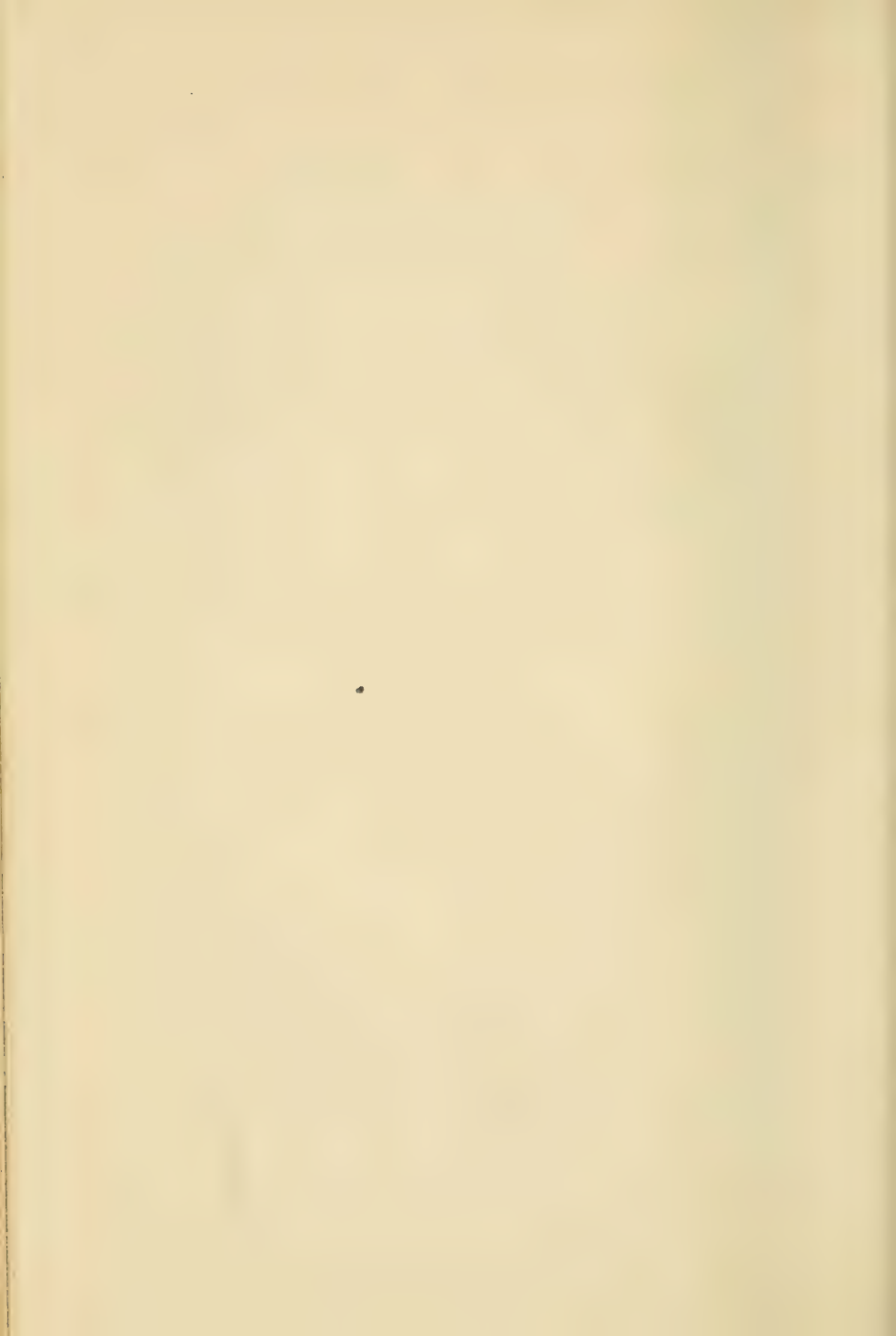
1910-1911.

Examinations for Admission.....	9th Mo.	26-27-28
College Year 1910-1911 begins*.....	9th Mo.	28
Thanksgiving Recess	11th Mo.	24-25-26
Winter Recess begins.....	12th Mo.	20
Winter Term begins, 1911*.....	1st Mo.	4
Second Half-year begins*.....	2d Mo.	13
Spring Recess begins*.....	4th Mo.	15
Spring Term begins*.....	4th Mo.	24
Senior Class Day.....	6th Mo.	15
Commencement and Alumni Day, 1911.....	6th Mo.	16
Examinations for Admission.....	6th Mo.	19-20-21

1911-1912.

Examinations for Admission.....	9th Mo.	25-26-27
College Year 1911-1912 begins*.....	9th Mo.	27
Thanksgiving Recess	11th Mo.	30, 12th Mo. 1-2
Winter Recess begins	12th Mo.	20
Winter Term begins, 1912*.....	1st Mo.	4
Second Half-year begins*.....	2d Mo.	12
Spring Recess begins.....	4th Mo.	13
Spring Term begins*.....	4th Mo.	22
Senior Class Day.....	6th Mo.	13
Commencement and Alumni Day, 1912.....	6th Mo.	14
Examinations for Admission.....	6th Mo.	17-18-19

* The first classes at the beginning of each term are held promptly at *half-past nine o'clock*. No absences from them are excused, unless clearly unavoidable.



HAVERFORD COLLEGE

HISTORY AND DESCRIPTION.

In the spring of 1830 a meeting of a few Friends in Philadelphia, shortly followed by a similar meeting in New York, originated Haverford College. The two committees expressed the object of their efforts as follows: "The members of the Society of Friends, having hitherto labored under great disadvantages in obtaining for their children a guarded education in the higher branches of learning, combining the requisite literary instruction with a religious care over the morals and manners of the scholars, . . . and carefully preserving them from the influence of corrupt principles and evil communications, it is therefore proposed that an institution be established in which the children of Friends shall receive a liberal education in ancient and modern literature and the mathematical and other sciences."

The sum supposed to be necessary, forty thousand dollars, was raised without great effort, and the committee went out to seek a location. "We wished to procure," they say, "a farm in a neighborhood of unquestionable salubrity—within a short distance of a Friends' meeting—of easy access from this city at all seasons of the year . . . and one that was recommended by the beauty of the scenery and a retired situation." They then reported that, of the many places inspected by them, the only one which combined all the advantages was one of one hundred and ninety-eight acres (since increased to two

hundred and twenty-five) "near the eight-mile stone of the Lancaster turnpike." They explained the present and prospective merits of the farm, the beauty of the natural woods, the unfailing springs of purest water, the nearness to the new Pennsylvania Railroad, in words which the succeeding decades have amply justified.

In the autumn of 1833 the school opened with twenty-one students, under the charge of a superintendent, who looked after the government, order and domestic economy of the family, a teacher of Ancient Languages and Ancient Literature, a teacher of English Literature and Mental and Moral Philosophy, and a teacher of Mathematics and Natural Philosophy.

The regulations of the new school were rigid. The bounds and hours of the boys were very strictly prescribed. All the details of the daily program were arranged with great care, and, if the elaborate provisions of a number of wise men for the normal growth of students could convert boys into perfect men, the students of those early days had every advantage.

The school thus established grew rapidly into prosperity and debt. The charges were low, the teachers were liberally paid, and the years which followed were marked by a constant endeavor to produce a maximum of good results from very limited funds. The financial deficiencies were made up in a liberal spirit and a constant growth was maintained by frequent subscriptions. All this time the school was justifying the effort by the quality of its results and was making for itself an increasing number of friends.

One of the first acts of the committee, after provision for absolute necessities, was to construct a gymnasium

and make arrangements for systematic physical work. They were determined that the advantage gained by the salubrity of the surroundings should not be lost by want of exercise. Under their care the lawn was graded at considerable expense, and foreign and native trees set out with the design to make it a great arboretum. Cricket, a game not then known elsewhere in America, was introduced and has continued to flourish. A greenhouse and a flower garden were established and maintained for twenty years by the work of the boys. The idea that has done harm elsewhere, that schools are places for mental development only, had no foothold here; but morals, muscles, and senses received their due share of culture.

In 1845 a temporary suspension was declared to allow the funds to accumulate and to give time for the collection of an endowment. This suspension lasted three years.

In 1852 the Observatory was built and supplied with an 8 $\frac{1}{4}$ -inch equatorial and a 3 $\frac{3}{4}$ -inch transit. In 1856 the school was changed to a college, and was authorized by the Legislature to grant degrees; but previously to this time the course had been as extended as in most colleges. It was still hampered with a preparatory department, which was not abolished until 1861. In 1863, Alumni Hall, containing an auditorium and ample accommodations for the library, was built. In 1877, Barclay Hall, with its private dormitories and study-rooms, was erected by friends of the College at a cost of eighty-two thousand dollars. The Chemical Laboratories were improved in 1878. The Observatory was enlarged in 1883, for the accommodation of a 10-inch telescope. The Mechanical Laboratory was established in 1884 and was provided

with a new building in 1890; this was burned down in 1896, and Whitall Hall, a new three-story structure, was built. The Biological Laboratory was established in 1886 and the Physical Laboratory in 1888. Since then the following buildings have been added to the college equipment: Chase Hall, for lectures and recitations, in 1888; the Cricket Shed in 1893; the enlargement of the nave and the south wing of Alumni Hall in 1898; Lloyd Hall in 1899; the large and well-equipped Gymnasium, presented by the Alumni at a cost of fifty thousand dollars, in 1900; Roberts Hall, the gift of Lucy Branson Roberts, for public lectures and college offices, and Merion Hall, a dormitory, remodelled from the old Grammar School building, in 1903; in 1905, a Dining Hall with offices and kitchen, erected by subscription of graduates and friends of the College; in 1906, a permanent building for the heating and lighting plant; in 1907, the enlargement of Merion Hall by remodelling the adjoining gymnasium building, providing accommodations in all for thirty-seven students; in 1909, the Haverford Union, a building presented by Alfred Percival Smith, '84, to accommodate the social and religious interests of the College; and, in 1910, the Chemical Laboratory, a building devoted to the use of the Chemical Department. The whole of Alumni Hall is now available for the housing of the library, which contains over fifty-five thousand volumes. Various donations and bequests were received during these years, and in 1897 the Jacob P. Jones endowment, of one million dollars, came into the possession of the College. In 1909 a pension fund of one hundred and fifty thousand dollars was raised to provide for the retirement of professors on account of age or disability.

During this time Haverford had developed into a fully organized college. Many rules, adapted to boys of boarding-school age, had been modified or abandoned, though enough restraint was retained to provide against demoralization. The standard of admission was raised. Students of any denomination were admitted. The number of teachers was increased sixfold. The annual charge was increased from two hundred dollars to five hundred dollars,* which still fails to represent what the College has to pay for professors' salaries and the board and care of students.

In general two students occupy a study-room and each has his private bed-room adjoining. A few single rooms are also available. Some of the professors live in the halls with the students, and others have houses on the grounds.

The College has a remarkably pleasant and healthful location in the township of Haverford, Delaware County,† Pa., nine miles west of the center of Philadelphia, on the main line of the Pennsylvania Railroad. The buildings are surrounded by grounds of about sixty acres, tastefully laid out, with a great variety of trees and shrubbery. These grounds provide excellent fields for cricket, football, tennis and other field games, a running track, and a pond for skating.

Retaining the old idea of a "guarded education" and "religious care over morals and manners," the College has sought to attain these ideals, and has measurably succeeded, by appeals to Christian principle and manliness rather than by the exercise of arbitrary power.

* According to the situation of the room the price may vary from \$375 to \$575.

† Haverford Post Office is in Montgomery County.

CORPORATION

President.

T. WISTAR BROWN 235 Chestnut St., Philadelphia

Secretary.

J. STODDELL STOKES 1011 Diamond St., Philadelphia

Treasurer.

ASA S. WING 409 Chestnut St., Philadelphia

BOARD OF MANAGERS.

Term Expires 1911.

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WALTER WOOD 400 Chestnut St., Phila.
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Term Expires 1912.

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CHARLES J. RHOADS.....Girard Trust Co., Phila.

Term Expires 1913.

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Girard Trust Co., Phila.

1910-1911
FACULTY

ISAAC SHARPLESS, Sc.D., LL.D., L.H.D.

President and Professor of Ethics

ALLEN CLAPP THOMAS, A.M.

Librarian and Professor of History

LYMAN BEECHER HALL, Ph.D.

John Farnum Professor of Chemistry

FRANCIS BARTON GUMMERE, Ph.D., LL.D., Litt.D.

Professor of English Literature

* HENRY SHERRING PRATT, Ph.D.

David Scull Professor of Biology

JAMES ADDISON BABBITT, A.M., M.D.

Physical Director and Associate Professor of Physiology

RUFUS MATTHEW JONES, A.M., Litt.D.

Professor of Philosophy

OSCAR MARSHALL CHASE, S.M.

Registrar of the College and Instructor in Drawing

ALBERT SIDNEY BOLLES, Ph.D., LL.D.

Lecturer on Commercial Law and Banking

DON CARLOS BARRETT, Ph.D.

Professor of Economics

ALBERT ELMER HANCOCK, Ph.D.

Professor of English

* Absent 1910-11.

LEGH WILBER REID, PH.D.
Professor of Mathematics

* WILLIAM WILSON BAKER, PH.D.
Associate Professor of Greek

FREDERIC PALMER, JR., A.M.
Dean and Associate Professor of Physics

LEON HAWLEY RITTENHOUSE, M.E.
Associate Professor of Mechanics and Electricity

RICHARD MOTT GUMMERE, PH.D.
Associate Professor of Latin

* THOMAS KITE BROWN, JR., A.M.
Instructor in German

ALEXANDER GUY HOLBORN SPIERS, PH.D.
Associate Professor of Romance Languages

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Instructor in History

CLARENCE ELNATHAN NORRIS, A.M.
Instructor in German

ALBERT HARRIS WILSON, S.M.
Associate Professor of Mathematics

HENRY JOEL CADBURY, A.M.
Instructor in Greek

JOHN PAUL GIVLER, PH.B.
Instructor in Biology

*Absent 1910-11.

HAVERFORD COLLEGE

ALFRED LORANUS ATWOOD, A.B.
Instructor in Physical Training

WILLIAM HENRY COLLINS, A.M.
Superintendent of Buildings and Grounds

HELEN SHARPLESS.
Assistant Librarian.

JONATHAN FORCE, JR., A.B.
Assistant in the Chemical Laboratory

ALFRED ALEXANDER DIXON, S.B.
Assistant in the Physical Laboratory

GARFIELD W. WEAVER.
Assistant in the Engineering Laboratory.

STANDING COMMITTEES OF THE FACULTY

LIBRARY—President Sharpless, Chairman; Professors Thomas, Hall, and F. B. Gummere.

CATALOGUE—Professor Barrett, Chairman; Professors Hancock, Reid, and Dean Palmer.

DELINQUENT STUDENTS—Professor Reid, Chairman; Professors Babbitt, Barrett, and Dean Palmer.

STUDENT PETITIONS—Dean Palmer, Chairman; Professors Barrett, Hancock, and Rittenhouse.

ATHLETICS—President Sharpless, Chairman; Professor Babbitt, Dean Palmer, and Professor R. M. Gummere.

ADVANCED DEGREES—Professor F. B. Gummere, Chairman; Professors Hall, Jones, Reid, and R. M. Gummere.

STUDENTS

The letters in the last column denote the courses taken. The letter A denotes the Arts Course, S the course in General Science, and E the course in Engineering.

GRADUATE STUDENTS.

- Crowell, James White, S.B. (Haverford College), Avondale, Pa.
 Dixon, Alfred Alexander, S.B. (Guilford College), Snow Camp, N. C.
 Force, Jonathan, Jr., A.B. (Columbia University), Livingston, N. J.
 Hobbs, Louis Lyndon, Jr., A.B. (Guilford College and University of North Carolina), Guilford College, N. C.
 Phillips, John Phillips, S.B. (Haverford College), *Teaching Fellow*, St. Davids, Pa.
 Tebbetts, J. Walter, S.B. (Earlham College), Richmond, Ind.
 Whittall, James, A.B. (Haverford College), *Teaching Fellow*, Germantown, Phila.

SENIOR CLASS.

Ashbrook, James	Philadelphia, Pa.	A
Boyer, Daniel Burghard	Boyertown, Pa.	S
Bradway, John Saeger	Haverford, Pa.	A
Clarke, James Alexander, Jr.	Devon, Pa.	A
Clark, Jefferson Hamer, Jr.	Philadelphia, Pa.	A
Downing, John Steele	Elsmere, Del.	S
Farquhar, Benjamin	Wilmington, Ohio	S

Hadley, Thomas Frederic	Northbranch, Kan.	A
Hartshorne, William Davis, Jr.	Brighton, Md.	A
Hinshaw, David Scull	Emporia, Kan.	S
Hobbs, Richard Jones	Mendenhall	
	Guilford College, N. C.	A
Jones, Le Roy	Oskaloosa, Iowa	A
McKay, Howard Franklin	Wilmington, Ohio	S
Patrick, Jesse Kersey	West Chester, Pa.	A
Post, Levi Arnold	Stanfordville, N. Y.	A
Price, Joseph Haines	West Chester, Pa.	A
Reynolds, David Duer	Kennett Square, Pa.	A
Schoepperle, Victor Franz	Oil City, Pa.	A
Shero, Lucius Rogers	Racine, Wis.	A
Spaulding, Eugene Ristine	Oak Lane, Pa.	S
Spencer, Ebenezer Hall	Moorestown, N. J.	A
Stuccator, Henry Bernard	Philadelphia, Pa.	A
Taylor, Howard Gardiner, Jr.	Riverton, N. J.	A
Tostenson, Frederick Oscar	Le Grand, Iowa	S
Wadsworth, Charles, 3d	Philadelphia, Pa.	A
Winslow, Caleb	Baltimore, Md.	A
Young, Alan Sedgwick	Philadelphia, Pa.	S
Young, Wilmer Job	Springville, Iowa	S

JUNIOR CLASS.

Baily, Albert Lang, Jr.	Haverford, Pa.	A
Baily, Joshua Longstreth, Jr.	Haverford, Pa.	A
Balderston, Mark	Colora, Md.	A
Bowerman, Arthur Lindley	Charleston, W. Va.	A
Brewer, Paul Clisby, Jr.	Philadelphia, Pa.	E

Brownlee, John Arthur	Sylvia, Kan.	A
Carpenter, James McFadden, Jr.		
	Pittsburg, Pa.	S
Cope, Joshua Alban	Morton, Pa.	S
Deane, Philip Bernard	Middleboro, Mass.	E
Falconer, Douglas Platt	Philadelphia, Pa.	A
Fansler, Ralph Lee	St. Davids, Pa.	A
Ferris, Henry, Jr.	Philadelphia, Pa.	S
Ferris, Leslie Warren	Harborcreek, Pa.	A
Froelicher, Hans, Jr.	Baltimore, Md.	A
Lathem, Lance Brenton	Chester, Pa.	A
Miller, Edward Imbrie	Lincoln University, Pa.	A
Miller, Robert Everts	Lancaster, Pa.	A
Moon, Charles Thompson	Fallsington, Pa.	S
Parker, John Hollowell	Baltimore, Md.	E
Poley, Irvin Corson	Philadelphia, Pa.	A
Renninger, John Daub	Zieglerville, Pa.	A
Ritts, Leonard Chase	Butler, Pa.	A
Roberts, William Hooten, Jr.		
	Moorestown, N. J.	S
Shipley, Thomas Emlen	Philadelphia, Pa.	A
Smiley, Francis Gerow	Mohonk Lake, N. Y.	A
Smith, Lloyd Mellor	Philadelphia, Pa.	A
Steere, Walter Hopkins	Chepachet, R. I.	A
Thomas, Henry Malcolm, Jr.		
	Baltimore, Md.	S

SOPHOMORE CLASS.

Beatty, Joseph Moorhead, Jr.		
	Bryn Mawr, Pa.	A
Beebe, Stacey Kile	Paris, Ill.	A
Crowder, William Samuel	Philadelphia, Pa.	A
Curtis, Frederick Augustus	Wilmington, Del.	A

Durgin, Clyde Gowen	Saco, Maine	E
Elfreth, J. Benington, Jr.	Chicago, Ill.	A
Froelicher, Francis Mitchell	Baltimore, Md.	A
Gifford, Philip Collins	Providence, R. I.	A
Goddard, Arthur Herbert	New Bedford, Mass.	A
Hall, Norris Folger	Haverford, Pa.	A
Hires, Charles Elmer, Jr.	Haverford, Pa.	S
Howson, Horace	Wayne, Pa.	A
Howson, Richard	Wayne, Pa.	E
Kirk, Elisha T.	Columbiana, Ohio	S
Lewis, William Evan	Allentown, Pa.	A
Longstreth, Walter Wood	Rosemont, Pa.	E
Lowry, Herbert Mendenhall	Philadelphia, Pa.	A
Maule, Edmund Richardson	Moorestown, N. J.	A
Meador, Stephen Warren	Gonic, N. H.	A
Montgomery, George	Philadelphia, Pa.	A
Morris, Sydney Sharp	Berwyn, Pa.	E
Murray, David Colden	Chappaqua, N. Y.	A
Nicholson, Herbert Victor	Lansdowne, Pa.	S
Porter, Oliver Moore	Philadelphia, Pa.	S
Rhoad, Kenneth Andrew	South Bethlehem, Pa.	A
Tatnall, Joseph	Wilmington, Del.	A
Taylor, Norman Henry	New York City, N. Y.	A
Tomlinson, Thomas	Philadelphia, Pa.	A
Van Sickle, John Valentine	Baltimore, Md.	A
Wallerstein, Edward, Jr.	Germantown, Pa.	A
Webb, William	Unionville, Pa.	A
Young, Charles Otis	Sag Harbor, L. I., N. Y.	S

FRESHMAN CLASS.

Baker, Paul Gay	Wakefield, N. H.	A
Bell, Henry Ernest	Milton, N. Y.	E

Bentley, Jules Silvanus	Camden, N. J.	A
Bowerman, Walter Gregory	Charleston, W. Va.	A
Clarke, Stewart Patterson	Devon, Pa.	A
Crosman Charles Henry	Haverford, Pa.	A
Downing, George Valentine	Elsmere, Del.	S
Edgerton, Charles Willis	Haverford, Pa.	E
Elkinton, Alfred Walton	Moylan, Pa.	S
Elkinton, Howard West	Moylan, Pa.	A
Elkinton, Thomas William	Philadelphia, Pa.	S
Feinstein, Lewis Julius	Philadelphia, Pa.	A
Ferguson, Joseph Cooper, 3d	Philadelphia, Pa.	S
Ferris, Malcolm	Philadelphia, Pa.	E
Garrigues, John Kittera	Haverford, Pa.	A
Green, Jesse Paul	Wilmington, Del.	A
Hare, William Yarnall	West Chester, Pa.	S
Heym, Gerhard Carl	Chicago, Ill.	A
Jones, Edward Morris	West Grove, Pa.	A
Lewis, Benjamin Jones	Broomall, Pa.	S
Locke, Robert Allison	Titusville, Pa.	E
Longstreth, William Church	Philadelphia, Pa.	A
Ludlam, Jesse Diverty	Cape May Court House, N. J.	A
McFarlan, Roy	West Chester, Pa.	A
McKinley, Rowland Paul	Wayne, Pa.	S
Miller, Harold Schaeffer	Philadelphia, Pa.	A
Moore, Percy Warren	Philadelphia, Pa.	S
Offermann, Harry	Philadelphia, Pa.	A
Patteson, William Sheppard	Penn Yan, N. Y.	S
Philips, Rowland Stanton	Kennett Square, Pa.	A
Rice, Edward, Jr.	Tuckahoe, N. J.	A

Rogers, Robert Groves	Brooklyn, N. Y.	A
Russell, Charles	New York City, N. Y.	E
Sangree, Paul Hudson	Philadelphia, Pa.	E
Seckel, Herbert Wetherill		
	Moorestown, N. J.	S
Smith, Robert Chapman	Philadelphia, Pa.	E
Stokes, Samuel Emlen	Moorestown, N. J.	A
Stout, John Amos	Paoli, Ind.	S
Taylor, Albert Mordecai	Ardmore, Pa.	E
Taylor, Herbert William	Malvern, Pa.	A
Taylor, Kempton Potter Aikin		
	Chestnut Hill, Pa.	S
Thomas, Leonard Van Hoesen		
	Haverford, Pa.	A
Waples, Douglas	Wayne, Pa.	A
Whitall, William Henry Bacon		
	Germantown, Pa.	S

SPECIAL STUDENTS.

Conklin, Frank Roland	Huntington, Long Island
Diamant, Francis Harrar	Devon, Pa.
Gates, Morris White	Cincinnati, Ohio
Levin, Edwin R.	Philadelphia, Pa.
Lippmann, Leonard B.	Overbrook, Pa.
Nichols, Eli	Wilmington, Del.
Richards, William	South Bethlehem, Pa.
Schoepperle, Richard J.	Hamburg, N. Y.
Stieff, Frederick Philip, Jr.	Baltimore, Md.
Stokes, Francis Collins	Moorestown, N. J.
Thomas, Lester Ralston	Avondale, Pa.

SUMMARY.

Graduate Students	7
Seniors	28
Juniors	28
Sophomores	32
Freshmen	44
Special Students	11
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REQUIREMENTS FOR ADMISSION.

Candidates for the Freshman Class are admitted on examination. No certificates are accepted.

Examinations are held twice a year, in the Sixth and the Ninth months, at the College, except in cases of distant candidates, for whom special arrangements may be made.

In 1911 the dates will be as follows:

Sixth month 19th, and Ninth month 25th.

9.00-10.00	Latin Composition.
10.00-11.30	Latin Prose Authors.
11.30-12.45	Latin Poets.
1.30- 3.30	Algebra.
3.30- 4.30	Greek Composition.
3.30- 5.00	Physics.

Sixth month 20th, and Ninth month 26th.

9.00-10.30	{ Xenophon.
	{ Chemistry.
9.00-11.15	{ French.
	{ Ancient History.
	{ Medieval and Modern European His-
	{ tory.
10.30-12.45	{ English History.
	{ American History and Civil Govern-
	{ ment.
1.30- 3.00	English.
3.00- 5.00	German.

Sixth month 21st, and Ninth month 27th.

8.30-10.00	Plane Geometry.
10.00-11.15	{ Homer and Sight Translation. Zoölogy. Botany.
11.15-12.45	
	Solid Geometry.
1.30- 3.30	Trigonometry.

A candidate may pass a preliminary examination (*i. e.*, one taken prior to the year of entrance) in any of his studies and be examined in the remaining studies in a subsequent year. A certificate will be given for the studies passed. No student will be admitted to a preliminary examination without a certificate from his teacher specifying the subjects in which he is prepared. The examinations of the College Entrance Examination Board will be accepted in place of corresponding Haverford examinations.

Candidates for Corporation scholarships (see page 88) must take all their examinations not later than the Sixth month of the year of entrance.

SUBJECTS FOR ADMISSION.

The requirements for admission will be divided into two groups in accordance with the table below. The units given are based upon those of the Carnegie Foundation.

The subjects in group A, comprising six and one-half units, are required of all candidates.

In addition to the subjects in group A, students entering the Arts course shall present subjects from group B

having a total of eight units; of these subjects Latin (elementary and advanced) and one other language will be required.

Students entering the Science courses shall present subjects from group B having a total of seven units; of these subjects, four of the units shall be in the languages.

Group A (required of all candidates) :

English*	3
Algebra	1½
Plane Geometry	1
One History†	1

Group B (elective) :

Latin Elementary	2
Advanced	2
Greek	3
German	2
French	2
One History	1
Solid Geometry and Trigonometry	1
Chemistry	1
Physics	1
Zoölogy	1
Botany	1

Students not able to pass all the examinations may be admitted with a few conditions. Each case will be decided on its merits.

* For definitions of these subjects see pages 26-34.

† Candidates for the Arts course must present Ancient History.

Students not candidates for degrees may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permission will be given only to students of ability and character sufficient to insure their success.

Candidates may be admitted to advanced classes if found proficient in all the preceding studies of the course. Each case will be considered on its merits.

Each candidate, in making application for admission, should fill out a blank provided for the purpose. Principals of schools are requested to write fully as to the character, habits, and ability of applicants. Such statements will have due weight in determining the question of admission. Students entering from other colleges must present certificates of honorable dismissal.

ENTRANCE EXAMINATION REQUIREMENTS.

ENGLISH.

The requirements in English are those recommended by the Conference on Uniform Entrance Requirements in English.

No candidate will be accepted in English whose work is notably defective in points of spelling, punctuation, idiom, or division into paragraphs.

A. Reading.—Certain books are selected for reading. The candidate will be required to give a list of the books he has read. The form of examination will usually be the writing of a short theme on a subject chosen by the candidate from several set before him in the examination paper. The treatment of the topic should show the candidate's power of clear and accurate expression and will

call for only a general knowledge of the substance of the books read.

For entrance in 1911 and 1912 the candidate will choose ten books, under the restrictions indicated, from the following groups:

Group I (two to be selected).

Shakspeare's *As You Like It*, *Henry V*, *Julius Cæsar*, *Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected):

Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, *Part I*; *Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III (one to be selected).

Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury* (*First Series*) *Books II* and *III*, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected).

Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected).

Irving's *Sketch Book*; Lamb's *Essays of Elia*; De

Quincey's *English Mail Coach* and *Joan of Arc*; Carlyle's *Heroes and Hero-Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected).

Coleridge's *Ancient Mariner*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and *Prisoner of Chillon*; Palgrave's *Golden Treasury* (*First Series*) *Book IV*, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; Browning's *Cavalier Tunes*, *Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Boy and the Angel*, *One Word More*, *Hervé Riel*, *Pheidippides*.

B. Study and Practice.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, style, and literary history.

The books set for this part of the examination will be, for entrance in 1911 and 1912; Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's speech on *Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Essay on Johnson* or Carlyle's *Essay on Burns*.

The English examination may be taken in two parts.

MATHEMATICS.

The definition of the requirements in Mathematics is the same as that of the College Entrance Examination Board.

Algebra A—To Quadratics.

The four fundamental operations for rational algebraic expressions.

Factoring, determination of highest common factor and lowest common multiple by factoring.

Fractions, including complex fractions, ratio and proportion.

Linear equations, both numerical and literal, containing one or more unknown quantities.

Problems depending on linear equations.

Radicals, including the extraction of the square root of polynomials and of numbers.

Exponents, including the fractional and negative.

Algebra B—Quadratics and beyond.

Quadratic equations, both numerical and literal.

Simple cases of equations, with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.

Problems depending on quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics,

and from commercial affairs. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

Plane Geometry.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of lines and plane surfaces.

Solid Geometry.

The usual theorems and constructions of good text-books, including the relation of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

The solution of numerous original exercises, including loci problems.

Application to the mensuration of surfaces and solids.

Plane Trigonometry.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles.

Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines

or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas.

Solution of trigonometric equations of a simple character.

Theory and use of logarithms (without the introduction of work involving infinite series).

The solution of right and oblique triangles, and practical applications.

In each subject stress will be laid upon accuracy and neatness of work. Results should be verified.

HISTORY.

The requirement in History is based on the recommendation of the Committee of Seven of the American Historical Association.

(a) *Ancient History*, with special reference to Greek and Roman history, and including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages down to the death of Charlemagne (814).

(b) *Medieval and Modern European History*, from the death of Charlemagne to the present time.

(c) *English History*.

(d) *American History and Civil Government*.

Each of the above topics is intended to represent one year of historical work wherein the study is given five times a week, or two years of historical work wherein the study is given three times a week.

The examination in history will be so framed as to require comparison and the use of judgment on the pupil's part as well as the use of memory. The examinations will presuppose the use of good text-books, col-

lateral reading, and practice in written work. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

GREEK.

(a) Xenophon, *Anabasis*, Books I-IV; Homer, *Iliad*, Books I-III, omitting the Catalogue of Ships. The examination will be designed to test the candidate's knowledge of grammatical forms and construction, and his ability to translate into idiomatic English. (b) The translation at sight of simple Attic prose. (c) The translation into Greek of a simple English passage based upon some portion of the Xenophon prescribed.

LATIN.

Elementary. Cæsar, the *Gallic War*, Books I-IV. This includes a thorough study of forms and constructions. Sight translation.

Advanced. (a) Cicero, the speech *On the Manilian Law*, the four against *Catiline*, and the speech *For Archias*. (b) Vergil, the *Æneid*, Books I-VI. Sight translation in both (a) and (b). (c) Translation into Latin of an English passage, based on some portion of the Cæsar or of the Cicero prescribed. Other books of Cæsar or speeches of Cicero may be offered by the candidate instead of those mentioned, *provided due notice be given*.

GERMAN.

(a) The translation at sight of ordinary German prose. The passages set for translation must be rendered into correct idiomatic English. (b) The translation into German of simple English sentences or of easy connected prose, to test the candidate's familiarity with the gram-

mar. (c) An accurate knowledge of the grammatical forms, rules, and constructions.

The passages set for translation into English will be suited to the proficiency of candidates who have read not less than three hundred pages, including reading at sight, from the works of at least three different authors. The books read during the first year's course in German (German A, page 46) will be adequate for preparation.

FRENCH.

Elementary. Requirements for admission to Freshmen French. (a) The translation at sight of simple French prose. The passages set for translation must be rendered into correct idiomatic English. (b) The translation into French of English sentences. (c) Special emphasis will be laid upon proficiency in grammar, including the conjugation of the more common irregular verbs.

The passages set for translation into English will be suited to the proficiency of candidates who have read not less than three hundred pages, including reading at sight, from the works of at least three different authors. The books read during the first year's course in French (French A, page 48) will be adequate for preparation.

Advanced. Requirement for admission to Sophomore French. (a) Translation at sight of idiomatic Nineteenth Century French. (b) Translation into French of a connected passage of simple English prose. (c) Thorough familiarity with grammar. In addition, this examination will include the main points of the examination in Elementary French. No candidate will be passed who fails upon these. Students passing this examination may, if their schedules permit, go directly into French II in

their college course. As preparation, the work done in French I will be adequate.

SCIENCE.

Elementary Physics.—This examination will be based on one year's work, covering mechanics, sound, heat, light, and electricity. Emphasis will be laid upon the solution of problems. All students who have had laboratory work will be required to leave their laboratory note-books with the instructor at the time of the examination.

Elementary Chemistry.—In chemistry, the requirements will comprehend a course of at least sixty experiments performed by the pupil and accompanied by systematic instruction in the common elements and their compounds, including chemical equations, the simple gas laws, and the fundamental atomic and molecular theories. The student's original laboratory note-book, endorsed by the instructor, must be presented at the time of the examination.

Zoölogy.—The requirements will cover the work of one year, which should include dissection of types of the most important groups of the animal kingdom and a study of the principles of the morphology, physiology, and classification of animals.

Botany. The examination will be based upon one year's work. The student will be expected to have a fairly definite knowledge of the seed and seedling, root, stem, and leaf, the flower and fruit, the cell, and to know something about physiological processes, ecology, and the natural history or classification of plants.

COURSES OF INSTRUCTION.

I. COURSE IN ARTS LEADING TO THE DEGREE OF BACHELOR OF ARTS.—Latin and one other language presented for admission must be continued during the Freshman and Sophomore years. If a third language is presented it may be continued when the daily program and the number of hours taken by the student permit. All courses given in any department are elective for Juniors and Seniors who have satisfactorily completed the prerequisites.

COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS.

In laboratory and gymnasium work, two and one-half hours must be taken for each hour given below.

FRESHMEN.

	Hours per Week
Greek I or German I or French I	4
Latin I	4
English I and II	2
Mathematics I	4
Government I or Physics A, half-year* and History I, half-year	3
Biblical Literature I.....	1
Biology I and Physical Training	2

*During the first half-year Physics A is required of all Freshmen who have not presented Physics for entrance. All others will take Government I.

SOPHOMORES.

	Hours per Week
Greek II or German II or French II	3
Latin II	3
English III	2
Mathematics II or Chemistry I*	4
Physics I or Biology II or Greek A or History II and Economics I*	4
Biblical Literature II.....	1
Physical Training	2

JUNIORS.

Greek III or IV or Latin III or IV or Mathematics III	3
Economics I† (first half-year) and Philosophy I (second half-year)	3
English IV, V or VI.....	1
Electives‡	9

SENIORS.

Philosophy V	3
English IV, V or VII.....	1
Electives‡	12

* Instead of either of these groups, students who take both Greek and Latin may elect four hours of advanced Greek or Latin, or German I, or French I, provided their schedules permit.

† For Juniors who have not elected it in the Sophomore year, Economics I is required during the first half-year, and is an elective for the second half-year. Juniors who have had Economics I will take another elective.

‡ For requirements governing the choice of electives, see pages 39-40.

II. COURSES IN SCIENCE LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE.

(a) *Course in General Science*.—The elective list is practically the same as in the course in Arts.

(b) *Course in Mechanical Engineering*.—This course consists largely of mathematics, applied science, and work in the shop and drawing-room.

(c) *Course in Electricity*.—The following substitution is made in Course (b) during the last year: Physics VII for Engineering III and IV. For the outline of this course make the above substitution in the Mechanical Engineering schedule on the next page.

The table on the next page presents the requirements in the Science courses.

COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

	GENERAL SCIENCE.	MECHANICAL ENGINEERING.
FRESHMEN.	Mathematics I 4* † German I..... 4 † French I..... 4 ‡ Government I or Physics A, half-year, and History I, half-year 3 English I and II 2 Biblical Lit. I..... 1 Biology I and Physical Training 2	Engineering III or IV 4* Mathematics I..... 4 German I or French I.... 4 ‡ Government I or Physics A, half-year, and History I, half-year 3 English I and II..... 2 Biblical Lit. I..... 1 Biology I and Physical Training 2
SOPHOMORES.	Mathematics II or Chemis- try I 4 Physics I or Biology II or Greek A or History II and Economics I..... 4 † German II..... 3 † French II..... 3 English III..... 2 Biblical Lit. II..... 1 Physical Training 2	Engineering III and IV, } first half-year } 4 Engineering II and IV } second half-year } Mathematics II 4 Physics I 4 German II or French II. 3 English III 2 Biblical Lit. II..... 1 Physical Training 2
JUNIORS.	§ Economics I, first half- year } 3 Philosophy I, second half- year } English IV, V or VI 1 †† Electives 12	Engineering III and IV, } first half-year } 5 Engineering I, second half- year } Chemistry I 4 Physics VI 3 Mathematics III 3 English IV, V or VI.... 1
SENIORS.	Philosophy V..... 3 English IV, V or VII.... 1 †† Electives 12	Engineering V, first half- year } 3 Engineering V or Physics VII, second half-year.. } Engineering III or IV 3 Mathematics IV 3 Philosophy V 3 English IV, V or VII.... 1 †† Electives 3

* Figures in these columns indicate hours per week. In laboratory, gymnasium, and shop-work, two and one-half hours must be taken for each hour here indicated.

† A student presenting Greek or Latin for admission to the Science courses may substitute German A and German I for German I and German II, or French A and French I for French I and French II in the Freshman and Sophomore years.

‡ See note, page 35.

§ See note, page 36.

†† For requirements governing the choice of electives, see pages 39-40.

REQUIREMENTS GOVERNING THE CHOICE OF ELECTIVES
FOR JUNIORS AND SENIORS.

For the Degree of Bachelor of Arts, electives are chosen according to the following groups and requirements:

Group I. Greek, Latin, Mathematics.

Group II. English, German, French, History, Economics, Biology, Chemistry, Physics.

Requirements for the Junior year:

- (1) Three hours from Group I.
- (2) Six hours from Groups I and II.
- (3) Three hours free electives.

Requirements for the Senior year.—Either A or B to be chosen:

A.—(1) Six hours in *two* of the three subjects chosen under (1) and (2) in the Junior Year.

(2) Six hours free electives.

B.—(1) Six hours in any *one* subject studied for at least three hours throughout half of the Junior Year.

(2) Six hours free electives.

For the Degree of Bachelor of Science, electives are chosen according to the following requirements:

Group III. Mathematics, Biology, Chemistry, Physics.

Requirements for the Junior year:

- (1) Six hours from Group III.
- (2) Six hours free electives.

Requirements for the Senior year.—Either A or B to be chosen:

A.—(1) Six hours in *two* of Group III, one of which was chosen under (1) in Junior Year.

(2) Six hours free electives.

B.—Same as B for Arts students.

The following courses when elected by Juniors and Seniors will count for one hour less than the scheduled amount: French A, German A, French I, German I, Government I.

No Junior or Senior shall take less than a total of 15 hours per week throughout any half-year.

GREEK.

Greek I and II are required, respectively, of Freshmen and Sophomores in the Arts course, who present Greek and Latin for admission and no other foreign language. (See pages 36 and 38, foot-note.) All Greek courses are open as electives.

A. *Course for Beginners.* Thorough study of the elements of the language, followed by the reading of simple Attic prose; Xenophon, *Anabasis*; selections from other authors. This course is generally given in alternate years. Students in the Arts course, who do not present Greek for admission and desire to begin the study at once, are permitted to substitute Greek A for French I or German I in the Freshman year. When not so taken, it is advised that the course be elected in the Sophomore year rather than later.

H. J. Cadbury; 4 hours.

I. *Freshman Greek*. Selections from various prose authors; Homer, *Odyssey*. Sight reading. Greek composition. Collateral reading on Greek private life and Greek mythology. H. J. Cadbury; 4 hours.

II. *Sophomore Greek*. Xenophon, *Memorabilia*; Plato, *Apology*; selections from Aristophanes, *Clouds*; selected Greek tragedies. Sight reading. History of Greek Literature. H. J. Cadbury; 3 hours.

III. *Greek Literature*. Thucydides, Books VI and VII; Demosthenes, Philippic and Olynthiac Orations; representative Greek dramas, both tragedy and comedy, with study of others in English translation.

3 hours.

IV. *Greek Literature*. Plato, *Republic*; Demosthenes, *On the Crown*, and selections from Aeschines, *Against Ctesiphon*. H. J. Cadbury; 3 hours.

[Not given in 1911-12.]

V. *Advanced Greek Prose Composition*. Exercises and conferences. H. J. Cadbury; 1 hour.

VI. *Masterpieces of Greek Literature in English*. Knowledge of Greek is not necessary for this course. It is designed primarily for men who have not studied the language, but wish to get some idea of the literature. It will include (1) lectures on the history of Greek literature, its characteristic features, and its subsequent influence; (2) collateral reading, in translation, of the *Iliad* and *Odyssey*, selected works of Plato, and selected plays of Aeschylus, Sophocles, Euripides, and Aristophanes.

3 hours, second half-year.

LATIN.

Latin I and II are required, respectively, of Freshmen and Sophomores in the Arts course. All Latin courses are open as electives.

A. *Course for Beginners.* This course may be taken as an elective and is given in alternate years.

Professor R. M. Gummere; 3 hours.

[Not given in 1911-12.]

I. *Freshman Latin.* Selections from Livy; Vergil, *Aeneid*, Books VII-XII, *Bucolics* and *Fourth Georgic*. Translation at sight. Prose composition.

Professor R. M. Gummere; 4 hours.

II. *Sophomore Latin.* Pliny, selected letters; Catullus; Horace, *Odes* and *Epodes*. Translation at sight. History of Latin Literature.

Professor R. M. Gummere; 3 hours.

III. *Latin Literature.* Terence, *Andria*; Plautus, *Menaechmi* and *Captives*; selections from Lucretius; Quintilian, *Institutio Oratoria*, Book X. Translation at

Professor R. M. Gummere; 3 hours.

IV. *Latin Literature.* The Principal Satires of Juvenal and Horace; Tacitus, *Annals*, Books I-VI. Translation

Professor R. M. Gummere; 3 hours.

V. *Advanced Latin Composition.*

Professor R. M. Gummere, 1 hour.

VI. *Comparative Literature*. Lectures on the relation of Latin Literature to English Literature.

Professor R. M. Gummere; 3 hours, first half-year.
[Not given in 1911-12.]

ENGLISH LANGUAGE AND LITERATURE.

English Ia, Ib, and II are required of all Freshmen, English III of all Sophomores, and English IV, V, VI or VII of all Juniors and Seniors. The other courses are elective for Juniors and Seniors. No student will be graduated who cannot write a creditable style extemporaneously.

Ia. *Freshman English*. The elements of rhetoric and studies in style. Genung, *Handbook of Rhetorical Analysis*. Extemporaneous speeches.

Professor Hancock; 1 hour, first half-year.

Ib. *American Literature*. A brief historical and critical survey of American authors. Wendell, *History of Literature in America*. Extemporaneous speeches. Weekly themes.

Professor Hancock; 1 hour, second half-year.

II. *Freshman English Literature*. Lectures on the foundations of English Literature, and on its development down to the time of Shakspeare.

Professor F. B. Gummere; 1 hour.

III. *Sophomore English*. Lectures on rhetoric and the appreciation of literature. Readings from selected authors. Weekly themes. Extemporaneous speeches.

Professor Hancock; 2 hours.

IV. *Junior and Senior English.* Essays, extemporaneous themes, and general readings in literature, history, and biography. The regulations of this course will be found, in detail, in the printed pamphlet.

Professor Hancock; 1 hour.

V. *Advanced Themes.* Discussion of the principles of literary art and method. Regular practice in the various forms of composition. The class will be limited to twelve members.

Professor Hancock; 1 hour.

VI. *Forensics.* Advanced work in extemporaneous speaking. Occasional addresses and debates. Collateral readings and themes. The course is open to ten qualified members of the Junior class.

Professor Hancock; 1 hour.

VII. *Public Speaking.* Addresses on social and political topics. Arguments and pleas for civic reforms. Collateral readings and themes. The course is open to eight qualified members of the Senior class.

Professor Hancock; 1 hour.

VIII. *Early English.* Bright, *Anglo-Saxon Reader*; *Elene*; *Béowulf*.

Professor F. B. Gummere; 3 hours, first half-year.

IX. *Middle English.* English literature in the thirteenth and fourteenth centuries. Chaucer, *Canterbury Tales*. English and Scottish Ballads. Lectures and readings.

Professor F. B. Gummere; 3 hours, first half-year.

X. *Elizabethan Literature*. Lectures on the development of English literature, particularly of the drama, down to Shakspeare. Readings of old plays and Elizabethan masterpieces. All the plays of Shakspeare, two of which are read critically in class.

Professor F. B. Gummere ; 3 hours, second half-year.

XI. *English Literature of the Seventeenth Century*. Lectures, with readings in the general literature, and a special study of Milton. Selections from the minor poems, the *Comus*, certain books of *Paradise Lost*, and all of *Samson Agonistes* are read in class.

Professor F. B. Gummere ; 3 hours, first half-year.

[Not given in 1911-12.]

XII. *Modern English Prose Writers*. Lectures on the lives and works of Steele, Addison, Defoe, Swift, Johnson, Goldsmith, Burke, Fielding, Sterne, De Quincey, Lamb, Landor, Hazlitt, Carlyle, Arnold, Ruskin, Dickens, Thackeray, George Eliot, and others. Collateral readings and reports.

Professor Hancock ; 3 hours, second half-year.

[Not given in 1911-12.]

XIII. *English Poetry of the Nineteenth Century*. Lectures on the lives and works of Burns, Coleridge, Wordsworth, Shelley, Byron, Keats, Arnold, Tennyson, Browning, Rossetti, Morris, and Swinburne. Collateral readings and reports.

Professor Hancock ; 3 hours, second half-year.

GERMAN.

For the German requirements in the Arts and Science courses see pages 35-38. All German courses are elective for Juniors and Seniors who have satisfactorily completed the prerequisites.

Students wishing to qualify for German I may do so by passing either the examination in German A or the entrance examination.

A. *Course for Beginners.* Reading, grammar, composition, conversation, dictation, sight-reading. Fraser and Van Der Smitten, *German Grammar*. Selections from the following books are read: Guerber, *Märchen und Erzählungen*; Heyse, *L'Arrabbiata*; Storm, *Immensee*; Hauff, *Die Karawane* and *Das kalte Herz*; Müller, *Deutsche Liebe*; Eichendorff, *Aus dem Leben eines Taugenichts*; Freytag, *Die Journalisten*; Schiller, *Der Neffe als Onkel*; Baumbach, *Der Schwiegersohn*.

C. E. Norris; 3 hours.

I. *Freshman German.* Rapid reading, with some grammar, dictation, and composition. Such books as the following are read: Batt and Allen, *German Stories*; Lessing, *Minna von Barnhelm* and *Emilia Galotti*; Schiller, *Wilhelm Tell* and *Maria Stuart*; Goethe, *Hermann und Dorothea*; Dahn, *Ein Kampf um Rom*; Sudermann, *Frau Sorge*; Von Scheffel, *Der Trompeter von Säckingen*; Meyer-Förster, *Karl Heinrich*.

C. E. Norris; 4 hours.

II. *Sophomore German.* Rapid reading of such books as Schiller, *Die Jungfrau von Orleans*; Kleist, *Prinz*

Friedrich von Homburg, with some attention to the development of the dramatic form; Goethe, *Faust*, or *The Vicar of Sesenheim*; Grillparzer, *Der arme Spielmann*; Keller, *Romeo und Julia auf dem Dorfe*. An opportunity to write German. C. E. Norris; 3 hours.

III. *German Prose Composition*. Review of grammar, dictation, conversation, written reports in German. A text, such as Mosher, *Willkommen in Deutschland*, is used as a basis for the introduction of the student to the language of modern daily life.

C. E. Norris; 3 hours, first half-year.

IV. *Scientific German*. Rapid reading in class of difficult prose in science, history, and philosophy, together with private reading of some treatise on a special subject chosen by the student and approved by the instructor. Wait, *German Science Reader*.

C. E. Norris; 3 hours, second half-year.

V. *Middle High German*. Paul, *Mittelhochdeutsche Grammatik*; *Das Nibelungenlied*; poems of Walther von der Vogelweide.

Professor F. B. Gummere; 3 hours.

VI. *German Literature of the Nineteenth Century*. A course intended to show the outcome of the period in German literature which was dominated by Lessing, Schiller, and Goethe. The class work consists of lectures and the reading of texts; in addition to this, a considerable amount of outside reading is required. The authors especially studied are Tieck, H. von Kleist, Hebbel, Grillparzer, Heine, Hauptmann, and Sudermann.

3 hours, half-year.

FRENCH.

For the French requirements in the Arts and Science courses see pages 35-38. All French courses are elective for Juniors and Seniors who have satisfactorily completed the prerequisites.

Students wishing to qualify for French I may do so by passing either the examination in French A or the entrance examination.

A. *Course for Beginners.* A course to give the student an elementary knowledge of grammar and a reading knowledge of the language. The following books are used: Spiers, *Manual of Elementary French*; About, *Roi des Montagnes*; Halévy, *Un Mariage d'Amour*; Labiche, *Le Voyage de Monsieur Perrichon*.

Professor Spiers; 3 hours.

I. *Freshman French.* Grammar work continued and rapid reading. The following books are used: Koren and Vreeland, *French Syntax and Composition*; Sarcey, *Siège de Paris*; Lamartine, *Scènes de la Revolution Française*; Voltaire, *Contes*; Loti, *Pêcheur d'Islande*; Daudet, *Contes*; Rostand, *Les Romanesques*.

Professor Spiers; 4 hours.

II. *Sophomore French.* Rapid reading of French classics both in the class room and as outside work. The following authors are read; Corneille, Racine, Molière, La Fontaine, Mme. de Lafayette, Voltaire, Chateaubriand, Hugo, Lamartine, Musset, Bornier, Rostand. In connection with the above the instructor gives a few lectures on the History of French Literature.

Professor Spiers; 3 hours.

III. *History of French Literature.* A lecture course treating the history of French literature from its origins to the present time. A large amount of outside reading, with written reports, is required. This course is conducted in French, and is open only to students who have passed creditably in French II.

Professor Spiers; 3 hours.

[Not given in 1911-12.]

IV. *Composition and Conversation.* A course in French conversation and advanced composition. This course may be elected only after consultation with the instructor.

Professor Spiers; 3 hours.

V. *French Authors and Literary Types.* Reading, conferences, and reports on limited fields of French literature—e. g., the work of Corneille, Racine, and Molière; French lyric poetry of the 19th century, etc. This course is regularly open to Juniors and Seniors only; others may be admitted with the permission of the instructor. This work counts as a two hours' course or as a three hours' course, according to the work chosen.

Professor Spiers.

SPANISH.

I. *Course for Beginners.* An elementary course intended for those who wish the essentials of the Spanish language, either for a business career or for literary work. The following books are used: Hills and Ford, *A Spanish Grammar*; Alarcón, *El Sombrero de Tres Picos*; Taboada, *Cuentos Alegres*; Moratín, *El Sí de las Niñas*; Calderón, *La Vida es Sueño*; Ford, *Selections from Don Quijote*.

Professor Spiers; 3 hours.

ITALIAN.

I. *Course for Beginners.* An elementary course in reading Italian. Grandgent, *Italian Grammar*, and Marinoni, *Italian Reading*, are used. The following authors are read: Goldoni, Boccaccio, Dante.

Professor Spiers; 3 hours.

[Not given in 1911-12.]

MATHEMATICS.

The courses in mathematics are arranged as far as possible to suit the needs of those students who (1) take them as part of their required Freshman and Sophomore work and do not intend to proceed further in mathematics, (2) elect them as a minor subject and take either physics, engineering or astronomy as a major subject, (3) take them as part of the required work of the Engineering course, or (4) elect them as a major subject.

Courses I, II, III, and IV are given every year and V in alternate years. The electives to be offered in any one year will be such as the needs of the department may require. Courses, either for undergraduates or graduates, on certain subjects other than those named below may be arranged for by consultation with the instructor.

In the library will be found some of the principal journals, treatises, and collected works. There are also libraries near by where other works and journals may be consulted. In one of the lecture rooms is a collection of mathematical models.

Courses Ia, Ib, Ia', and Ib' are required of all Fresh-

men. These courses, together with *Ic*, constitute the honor courses in mathematics for Freshmen.

Students who have presented solid geometry and trigonometry for entrance must substitute *Ic'* for *Ia'*, *Ib'*.

Courses *Ila* and *Ilb* are for Sophomores. These courses, together with *Ilc*, constitute the honor courses in mathematics for Sophomores.

Courses *IIIa* and *IIIb* should be taken by students electing mathematics in the Junior year. These courses, together with *IIIc*, constitute the honor courses in mathematics for Juniors.

Courses *IIIa* and *IIIb*, and *IVa* and *IVb* are required of Engineering students.

The Freshman and Sophomore mathematical prizes will be awarded only to students taking the honor courses in these years.

Ia and *Ib*. *Algebra*, including infinite series, undetermined coefficients, the binomial theorem for fractional and negative exponents, logarithms, probability, determinants, and the elements of the theory of equations. Fine, *College Algebra*. Professor Reid; 2 hours.

Ia'. *Trigonometry*. The elements of plane trigonometry, including the solution of right and oblique plane triangles, with applications to practical problems. Lyman and Goddard, *Plane Trigonometry*.

Professor Wilson; 2 hours, first half-year.

Ib'. *Solid Geometry and Mensuration*. Thompson, *Solid Geometry*.

Professor Wilson; 2 hours, second half-year.

Ic. *Special Topics in Algebra.*

Professor Reid; 1 hour.

Ic'. *Special Topics in Trigonometry and Solid Geometry*, including Spherical Trigonometry.

Professor Wilson; 2 hours.

IIa. *Plane Analytic Geometry.* Fine and Thompson, *Coördinate Geometry.*

Professor Wilson; 4 hours, first half-year.

IIb. *Differential Calculus.* McMahon and Snyder, *Differential Calculus.*

Professor Wilson; 4 hours, second half-year.

IIc. *Special Topics in Analytic Geometry.*

Professor Wilson; 1 hour.

IIIa. *Solid Analytic Geometry.* Fine and Thompson, *Coördinate Geometry.*

Professor Reid; 3 hours, first half-year.

IIIb. *Integral Calculus and Elementary Differential Equations.* Murray, *Integral Calculus.*

Professor Reid; 3 hours, second half-year.

IIIc. *Special Topics in Calculus.*

Professor Reid; 1 hour.

IVa. *Elementary Statics and Dynamics.* Cox, *Mechanics.*

Professor Wilson; 3 hours, first half-year.

IVb. *Dynamics of a Particle and Elementary Rigid Dynamics.* Cox, *Mechanics.*

Professor Wilson; 3 hours, second half-year.

V. *Descriptive Geometry.* See Engineering IV.

A selection from the following courses will be given each year. A student wishing to take any special course should apply to the professor in charge.

VI. *Introduction to the Theory of Functions.* Prerequisite, IIIa. Harkness and Morley, *Introduction to Analytic Functions.* Professor Reid; 3 hours.

VII. *Theory of Equations;* including an introduction to the Galois theory. Cajori, *Theory of Equations.* Professor Reid; 3 hours, half-year.

VIII. *Differential Equations.* The subject will be treated on lines similar to those of Forsyth's text-books. Prerequisite, IIIa.

Professor Wilson; 3 hours, half-year.

IX. *The Differential Equations of Physics,* with simple applications.

Professor Wilson; 3 hours, half-year.

X. *Introduction to Modern Geometry.*

Professor Reid; 3 hours, half-year.

XI. *Analytic Geometry of Three Dimensions.* Theory of surfaces and curves in space. C. Smith, *Solid Geometry.*

Professor Reid; 3 hours, half-year.

XII. *Advanced Mechanics*. This course is a continuation of Courses IVa and IVb. It includes the methods by which the general principles of mechanics are applied to the solutions of various physical problems. Thomson and Tait, *Natural Philosophy*.

Professor Wilson; 3 hours.

XIII. *Elements of the Theory of Algebraic Numbers*.

Professor Reid; 3 hours.

HISTORY.

A liberal use of the College Library facilities is required in all the history courses. The modern methods of historical study are developed progressively throughout the four years.

History I is required of all Freshmen in the second half-year.

History II, in connection with Economics I when taken in the Sophomore year, is an elective for Sophomores.

History III and IV are electives for Juniors and Seniors.

I. *European History*. The two-fold object of this course is to develop the general background of historical knowledge in the student, and to introduce him to the methods of historical study. In a brief introductory survey the student is required to fix definitely in his mind some of the essential landmarks of Medieval History. The course is then brought down to the present by a more thorough study of the Modern Period.

Dr. Kelsey; 3 hours, second half-year.

II. *General Course in English History.* Much of the subject matter is obviously dealt with in outline form. The unity and continuity of English history is developed and emphasis is laid upon such phases of the subject matter as will especially aid the student in understanding modern constitutional development in Europe and the United States. Sophomores who elect this course take Economics I the same year.

Dr. Kelsey; 2 hours.

III. *American Colonial History to 1783.* Conditions in Europe leading to the motives and methods of colonization, expansion of the English colonies, rivalry of the English and the French, development of industrial, social, and political conditions, growth toward independence and union, the Revolution.

Dr. Kelsey; 3 hours.

IV. *History of the United States, 1783-1865.* Constitutional and political history of the United States from the close of the Revolution to the close of the Civil War. The following topics cover the points of chief emphasis in the course:

The genesis and adoption of the Constitution; the rise of political parties and the growth of nationality; westward extension; economic development and sectional divergence; the relation of slavery to the oncoming contest; the great struggle and the result.

Intended primarily for Juniors.

Dr. Kelsey; 3 hours.

[Not given in 1911-12.]

V. *Medieval History*. This course includes a survey of the civilization of Europe at the beginning of the Middle Ages and deals with the decline of the Roman Empire, the Gothic invasion, the rise and fall of Saracen civilization, the growth and decay of Charlemagne's empire, Feudalism, the Crusades, the conflicts between the Empire and the Papacy, and the Reformation.

Dr. Bolles; 3 hours, second half-year.

VI. *Advanced Course in English History*. This course deals chiefly with the history of England from the Norman Conquest to recent times, but is prefaced by a brief review of the Anglo-Saxon period. The evolution of representative government in England and its relation to world society of to-day is emphasized. The larger lines of economic development are followed. Emphasis is laid also upon the history of the church in England, especially during the Reformation period and to the establishment of the modern sects.

Intended primarily for Seniors.

Dr. Kelsey; 3 hours.

ECONOMICS.

Economics I is required of all Juniors in the Arts and General Science courses who have not elected it in the Sophomore year. The other courses in Economics are elective for Juniors and Seniors.

I. *Elementary Economics*. The purpose in this course is to acquaint the student with the fundamental principles of the science and to promote his preparation for the

duties of citizenship. The principles are developed from a study and discussion of the actual processes and organization of industrial society. Discussion of a series of problems set for solution, text-book, collateral readings and lectures. Juniors may continue this course as an elective during the second half-year. If elected in the Sophomore year, History II must also be taken.

Professor Barrett; 3 hours, first half-year, for Juniors;
2 hours, throughout the year, for Sophomores.

II. *Transportation and Corporations.* (a) The historical development and present systems of railways and canals in the United States are treated. Then follow the problems of rate-making, pooling, consolidation, government control and other topics showing the relation of railways to shippers and to the public. (b) A study is made of industrial organization and the trust problem. The topics include forms of business organization, covering partnerships, corporations, pools, trusts and holding companies; the evils of corporate management, such as fraudulent promotion, over-capitalization and speculation, and government control.

Professor Barrett; 3 hours.

[Not given in 1911-12.]

III. *Labor Problems.* A study is made of the factory system, collective bargaining, trade unions, employers' associations, strikes and boycotts, methods of arbitration and conciliation, labor legislation and court decisions, employers' liability, compulsory insurance, etc. An extended investigation of some phase of the labor question is required of each student and the results are presented

in a report to the members of the course. Lectures and discussion of assigned readings.

Professor Barrett; 3 hours, first half-year.

IV. *Money and Banking.* The course begins with a review of the principles of money and of the functions of a bank, followed by a brief survey of the history and present practice of banking in leading countries, but with extended study of conditions in the United States. Such practical problems as the monetary standard, paper money, credit, price movements and their effects on incomes, crises, foreign exchange, and the proposed reforms in our banking system are taken up. It may be taken with Economics VI.

Professor Barrett; 3 hours, second half-year.

V. *Commercial Law and Banking.* An exposition of the leading principles of the law relating to contracts: who can make them; what assent is needful; what consideration is required; how they are interpreted and enforced. Also the law relating to particular subjects; sales, carriage of goods and passengers, agency, partnership, negotiable paper, checks, guaranty, surety, payments, interest, shipping, insurance, deeds and loans, and corporations. The practice and most important legal principles of banking; the methods of raising the capital; modes of organizing national and state banks, savings banks, trust and finance companies; the resources of a bank and the modes of lending them; the duties of its directors, president, cashier, tellers, bookkeepers and other officials; public and private examinations and audits. This course may be taken with Economics IV.

Dr. Bolles; 3 hours, first half-year.

VI. *Distribution of Wealth.* A study is made of leading writers from Adam Smith to the present time, including Ricardo, Mill, Cairnes, Marshall, Böhm-Bawerk, and American economists. The object is to acquaint the student with various views on the problems of value and distribution, and to secure a more thorough grasp of economic principles and economic conditions than is possible in Economics I.

Professor Barrett; 3 hours, first half-year.

VII. *Sociology.* This course begins with an introduction to the general theory of sociology. A study is made of the development of modern social institutions with especial reference to the family and the problems of marriage and divorce. The problems of pauperism and crime, with the methods and principles of modern relief policies are taken up. Institutions in Philadelphia for the betterment of the dependent and neglected classes are visited by students. The work is covered by lectures, text-books, collateral reading, and reports.

Professor Barrett; 3 hours, second half-year.

GOVERNMENT.

Government I is required of all Freshmen who have offered Physics as an entrance requirement. The other courses in government are elective for Juniors and Seniors.

I. *Constitutional Government.* This course affords a general survey of the political and constitutional phases of government. Emphasis is laid upon the elementary

principles of political science and upon the actual working of the governments of the United States and England. The course is conducted by means of text-books, informal lectures, and collateral reading.

Professor Barrett; 3 hours, first half-year.

II. *Expenditure and Revenue.* A description of the mode of expending and collecting the revenues of the national and state governments. The functions of government are briefly set forth and expenditures are classified. The mode of making expenditures by the different departments of the national government is then discussed, followed by a description of the bills appropriating money. The different kinds of taxes are next considered, the principles on which the laws are based, and the modes of administering them. The expenditures and revenues of the state are treated in the same manner.

Dr. Bolles; 3 hours, first half-year.

III. *Blackstone.* This course is intended to meet the admission requirements of the law schools in this subject. The class work consists of quizzes and explanations of the more difficult and important parts of the work.

Dr. Bolles; 3 hours, first half-year.

[Not given in 1911-12.]

BIBLICAL LITERATURE.

Except Course V all courses in Biblical Literature are conducted by lectures and by readings in English. Course I is required of all Freshmen; Course II of all Sophomores; Courses III and IV (given in alternate years) and Course V, are elective for Juniors and Seniors.

I. *Religion of the Old Testament.* After preliminary outlines of the history and literature of the Hebrews, a survey is made of the successive stages of their religious development.

Professor Jones; 1 hour.

II. *Life and Times of Paul.* The general conditions of New Testament Times are reviewed and the life and work of Paul is studied on the basis of his letters and the *Acts of the Apostles* with some consideration of his personality and religious beliefs.

H. J. Cadbury; 1 hour.

III. *Introduction to the New Testament.* The history of the canon, text, and English translation of the New Testament, with the study of the origin of the several books (date, authorship and related questions of "introduction").

Professor Jones; 3 hours.

IV. *Introduction to the Old Testament.* Origin and history of the Old Testament as a whole and of its several parts.

3 hours.

[Not given in 1911-12.]

V. *Greek New Testament.* Translation and explanation of the Greek text of books selected from the New Testament (or other Christian and Jewish writings) with lectures, readings and investigations on related historical, literary and linguistic subjects. The work of this course is so varied from year to year that it may be elected in successive years.

H. J. Cadbury; 3 hours.

PHILOSOPHY.

I. *Psychology*. A course in general psychology. James, *Psychology* (briefer course), is used as a text-book, supplemented by lectures. A short series of lectures is also given on logic.

Professor Jones; 3 hours, second half-year.

II. *Interpretation of the New Testament*. This course is devoted to a search for the original message of Christianity as expressed by the writers of the Gospels and Epistles. It consists of lectures, assigned reading, and theses. The work is done in English.

Professor Jones; 3 hours, first half-year.

III. *Development of Christian Thought*. An examination of the great types of religious thought which have prevailed at different epochs in the history of the Church, such as the Alexandrian conception of Christianity, the Latin, the Calvinistic, and the Quaker conception. Lectures, assigned reading, and theses.

Professor Jones; 3 hours, second half-year.

IV. *History of Philosophy*. The chief systems of philosophy from the earliest period down to modern times. The development of theories of idealism receives special attention. The text-books required are Rogers, *A Student's History of Philosophy*, and Royce, *The Spirit of Modern Philosophy*, with other reading. Lectures, discussions, and theses.

Professor Jones; 3 hours.

Va. Ethics. The important ethical theories are studied historically with the purpose of discovering a satisfactory criterion or basis of moral action. Each student is expected to make an exposition of some one representative system. The books from which selection is to be made are Muirhead, *Elements of Ethics*; Spencer, *Data of Ethics*; Dewey and Tufts, *Manual of Ethics*; Green, *Prolegomena to Ethics*. Lectures and theses.

Professor Jones; 3 hours, first half-year.

Vb. Ethics. In this course are considered current problems of practical ethics.

President Sharpless; 3 hours, second half-year.

VI. Religious and Philosophical Movements. This course is for advanced students and honor men only, and is conducted on the seminar method. Different epochs are studied from year to year.

Professor Jones; 2 hours, in the evening.

ASTRONOMY.

The Haverford Observatory affords students the means of becoming familiar with the use of astronomical instruments, and of acquiring, from actual observation, a practical acquaintance with astronomy.

It contains two equatorial telescopes, one by Clark, with an object-glass 10 inches in diameter, with filar micrometer and eyepieces; and one with an object-glass $8\frac{1}{4}$ inches in diameter by Fitz; a Newtonian reflector with a silver-on-glass speculum $8\frac{1}{4}$ inches in diameter; a Grubb prismatic spectroscope; a meridian circle of $3\frac{3}{4}$ -

inch aperture; a combined transit and zenith telescope of $1\frac{3}{4}$ -inch aperture; two sextants; a mean time and a sidereal time clock, both being electrically connected with a chronograph by Bond.

The latitude of the Observatory is $40^{\circ} 0' 40.1''$ north; its longitude, 5 h. .01 m. 14.5 sec. west of Greenwich.

I. *Elementary Astronomy*. This course is mainly descriptive. It sets forth the leading facts of astronomy and gives an elementary explanation of the methods by which they are ascertained. Lectures and recitations. Moulton, *Introduction to Astronomy*.

Professor Wilson; 3 hours, first half-year.

II. *Practical Astronomy*. The use of the transit, sextant, and theodolite in the determination of time, latitude, and azimuth. Campbell, *Practical Astronomy*, with use of the *American Ephemeris*. Prerequisite, Astronomy I and Mathematics 1c'.

Professor Wilson; 3 hours, second half-year.

BIOLOGY.

The Biological Laboratory is amply equipped with microscopes, reagents and all other necessary apparatus and appliances. It also contains several hundred biological works and zoölogical, anatomical, and botanical charts.

The courses of the department are arranged so that students intending to study medicine may have every facility for preparation.

Course I is required of all Freshmen during the first half-year.

Courses II to X are elective, but Courses III to VI, inclusive, must be preceded by Course II.

I. *Elementary Physiology and Hygiene.* This course is preparatory to the general physical training required by the College, and includes general physiology, hygiene, a brief review of human anatomy, and lectures on first aid to the injured.

Professor Babbitt; 1 hour, first half-year.

II. *Elementary Biology.* The lectures of this course are devoted to a discussion of the fundamental principles of the structure and life-processes of animals and plants, and also to some of the more important questions relating to their origin and evolution. The laboratory periods are devoted to the practical study and discussion of typical representatives of some of the greater groups of animals and plants. Many field excursions are taken in order to study animals and plants in their natural environment.

J. P. Givler; 4 hours.

III. *Comparative Anatomy of Vertebrates.* The laboratory work of this course includes the dissection and study of a cartilaginous and a bony fish, an amphibian, a reptile, a bird, and a mammal. This course is given in alternate years with Courses Va and Vb. One lecture and two laboratory periods a week.

3 hours.

IV. *Morphology of Invertebrates.* This course is intended for those who may wish to make a more extended study of invertebrates than is possible in Course II.

3 hours, half-year.

Va. Histology of Vertebrates. The laboratory work of this course includes a microscopical study of vertebrate tissues. The student also learns the methods of microscopical technique, the preparation of some of the more important reagents, the use of the microtome, etc., and he prepares or obtains about one hundred stained and mounted slides. One lecture and two laboratory periods a week.

J. P. Givler; 3 hours, first half-year.

Vb. Embryology of Vertebrates. The laboratory work in this course is devoted to the study of the embryology of the chick and of the frog. One lecture and two laboratory periods a week.

J. P. Givler; 3 hours, second half-year.

Courses *Va* and *Vb* are given in alternate years with Course III.

VI. General Botany. The laboratory work of this course consists of the dissection and structural study of typical representatives of the principal groups of plants. One lecture and two laboratory periods a week.

J. P. Givler; 3 hours.

VII. Biological Theories. This course will consist of lectures, text-book studies and reports of readings on the most important current biological theories. These will include the theories of life and the living substances; of the maintenance and generation of living things; of heredity and evolution. Kellogg's *Darwinism of To-day* and other books will be used as text-books.

3 hours.

VIII. *Human Anatomy.* A course in general and applied anatomy intended especially for preparatory medical students and prospective teachers of physical training. The department is equipped with a skeleton, a manikin, enlarged models of the eye, ear, throat, and heart, and numerous charts to aid in practical work. A complete set of individual bones, including a disarticulated skull, affords opportunity for the study of osteology. The course includes a study of the brain and spinal cord, and, as far as time permits, a study of the eye, the ear, and the throat. It is supplemented by attendance upon medical clinics and by occasional visits to the anatomical museums of the city.

Professor Babbitt; 3 hours.

Courses IX and X will be open only to advanced students and by special arrangement.

IX. *Advanced Physiology and Hygiene.* A course in general advanced physiology with special attention to digestive secretions, vasomotor system and reproductive organs. This will also include a study of the principles of Bacteriology, Sanitation and Municipal Hygiene.

Professor Babbitt; 3 hours, second half-year.

X. *Advanced Experimental Physiology.* This course will consist of two hours' lecture and demonstration and one laboratory period per week. Suitable apparatus is provided for practical and experimental work upon muscle and nerve preparations, examination and tests of blood and of secretions, production of artificial digestion, functional study of the heart, general circulation, special senses, etc. The laboratory work will also include experimental study in bacteriology.

Professor Babbitt; 3 hours, second half-year.

[Not given in 1911-12.]

CHEMISTRY.

The chemical laboratory affords ample facilities for the prosecution of elementary or advanced special work. The professor and his assistants are in constant attendance. The laboratory work comprises elementary experiments in general chemistry; the preparation of a number of pure compounds; qualitative and quantitative analysis, and experimental work illustrating chemical laws and theories. Chemistry I or Mathematics II is required of all Sophomores in the Arts and General Science courses, and Chemistry I is required of all Juniors in the Mechanical and Electrical courses.

I. *Elementary General Chemistry.* In this course students will probably have two lectures or recitations and two laboratory periods a week. The preparation, properties and uses of the more important elements and inorganic compounds are discussed in the lectures and are illustrated by experiments. In the laboratory the time is given mainly to the preparation and study of the non-metallic elements and a few of their compounds.

Professor Hall; 4 hours.

II. *Qualitative Analysis.* The exercises are mainly practical, but there is, each week, at least one lecture or examination. Although the instruction is devoted chiefly to the methods of qualitative analysis, it is expected that the student will increase materially his knowledge of general chemistry by following this course.

Professor Hall; 3 hours, or more by arrangement.

III. *Quantitative Analysis*. The simpler gravimetric and volumetric methods of analysis are studied. The calibration of flasks and burettes is also included.

Professor Hall; 3 hours, or more by arrangement.

IV. *Organic Chemistry*. This course consists of lectures, recitations, and laboratory work throughout the year. It will be found useful not only to those intending to become chemists, but also to students of biology and medicine.

Professor Hall; 3 hours.

V. *Advanced Quantitative Analysis*. This course is a continuation of Course III, but includes the analysis of silicates and other complex compounds, the examination of water, milk, butter, iron, steel, etc.

Professor Hall; 3 hours, or more by arrangement.

PHYSICS.

The Department of Physics occupies six rooms in the west end of Founders Hall, well arranged both for laboratory work and for lectures. The apparatus has been carefully chosen to illustrate the principal phenomena dealt with in the lecture demonstrations of both elementary and advanced work. The installation of a new 24-inch induction coil and accessory apparatus has made the laboratory excellently well equipped for doing all sorts of X-ray work. The wireless telegraph station can receive messages from the commercial stations in Pennsylvania, New Jersey, Delaware, New York, and the government stations of the Navy, as well as communicate with neighboring stations.

The apparatus belonging to the electrical laboratory, which includes several excellent standards, was selected to illustrate the modern application of the science as well as its fundamental principles. This includes many types of generators and motors, both alternating and direct; a complete line of measuring instruments; arc and incandescent lamps; galvanometers, bridges, etc. All the rooms are supplied throughout with both gas and electric light. The following currents are available: 20 volt storage battery, 110 volt direct, 110 and 200 volt 60 cycle three phase alternating, and, by means of transformers, other voltages and phase relations.

Course A is required of all Freshmen not presenting Physics at entrance.

Course I is elective with either Biology II or History II and Economics I in the Sophomore year.

Courses II and IV are usually given in alternate years, as are also III and V, and all are open as electives to those who have taken Course I.

A. Elementary Physics. The work is intended to cover the ground of a good high school course. The student is made familiar with natural laws and their applications to daily life, and receives sufficient preparation to enable him to pursue the subject further. The recitations and lectures are accompanied by numerous experimental demonstrations. There is no laboratory work. The text-book is Mann and Twiss, *Physics*.

Professor Palmer; 3 hours, first half-year.

I. General Physics. This course is open to those who have passed the entrance examination or Physics A. Me-

chanics, sound, heat, light, electricity and magnetism are taken up and treated in detail. A feature of this course is the laboratory work, the chief aim of which is accuracy of observation and of measurement. At least one period each week is spent in the laboratory. The text-books are Hastings and Beach, *General Physics*, and Ames and Bliss, *Manual of Experiments in Physics*.

Professor Palmer ; 4 hours.

II. *Electrical Measurements*. The laboratory work of this course supplements that of Physics I in magnetism and electricity, and consists of fundamental experiments in the measurement of magnetic hysteresis, currents, resistances, electromotive forces, capacity, and inductance. The lectures are devoted chiefly to the description and explanation of phenomena met with in the laboratory.

Professor Palmer ; 3 hours, first half-year.

III. *Molecular Physics*. A study of vacuum tube phenomena, cathode rays, Roentgen rays, and radioactivity is followed by an introduction to the theory of ionization, and to the corpuscular theory of matter. The lectures are accompanied by many interesting demonstrations. There is no laboratory work. The books of J. J. Thompson, Rutherford, and Fournier are used for reference.

Professor Palmer ; 3 hours, second half-year.

IV. *Wireless Telegraphy*. In this course a brief study of mutual inductance, self-inductance, and capacity leads to a discussion of electric waves, their properties and measurement. Finally the application of these subjects is made to wireless telegraphy, and the student is given

an opportunity to apply his knowledge both in sending and receiving messages at the department wireless station. A small amount of laboratory work may be required. The text book is Pierce, *Principles of Wireless Telegraphy*.

Professor Palmer; 3 hours, first half-year.

[Not given in 1911-12.]

V. *Light*. In this course a brief study is made of fundamental light phenomena. Experiments are performed in the laboratory on the measurement of indices of refraction, wave-length, and spectra, and observation is made of diffraction and polarization phenomena. Preston, *Theory of Light*, is used for reference.

Professor Palmer; 3 hours, second half-year.

[Not given in 1911-12.]

VI. *Electrical Engineering*. This course includes a general survey of electrical science with its applications. A knowledge of electricity, such as would be obtained in Physics I, is required. The instruction is carried on by text-book, lectures and laboratory work. It includes a study of instruments, generators, motors, transformers, arc and incandescent lamps, heaters, welders, etc. The practical phases of engineering, such as wiring buildings, testing apparatus, etc., are taken up as far as time permits.

Professor Rittenhouse; 3 hours.

VII. *Electrical Engineering*. This course follows Course VI. At least one period a week is spent in the laboratory. The experiments include the calibration of measuring instruments, the absolute measurement of electrical and magnetic quantities, efficiency tests of generators, motors, and transformers, construction of

characteristic curves, etc. Electrical apparatus is studied in more detail than in Course VI. Considerable time is devoted to alternating currents and a series of graded problems are solved by both the analytic and graphic methods. The modern applications are studied and illustrated by visits to the large power houses, substations, etc., around Philadelphia.

Professor Rittenhouse; 3 hours, or more.

ENGINEERING.

The engineering courses are designed to give a thorough training in fundamental engineering principles and, as far as practicable, to teach the application of these principles to the generation and utilization of power and to the construction of machines.

Exceptional facilities for observing the practical side of the work are offered by the many manufacturing companies in and near Philadelphia, and frequent inspection trips are taken.

The Engineering Department occupies a commodious stone building, three stories high, erected during the summer of 1896. The equipment of the shop is modern and of the best quality. The wood-working room affords accommodation for fourteen students. The benches are provided with quick-action vises and a complete set of carpenter's tools for each student. This shop contains a 36" band saw and five wood-lathes. The iron-working room contains a 24" x 12' Blaisdel engine-lathe and three smaller engine-lathes; a 24" x 24" x 6' planer, a Becker-Brainard universal milling machine, a Gould and Eberhardt 16" shaper, two drill presses, several vises,

and complete sets of machinist's tools for bench work, pipe-fitting, etc. Steam engine indicators, weighing scales, standard pressure gauges, calorimeters and electrical measuring instruments, in connection with the central heating and lighting plant, afford good opportunity for boiler, engine, and dynamo testing. A 30,000 pound Riehle screw-testing machine, recently erected, is used for testing materials and for investigating the laws of stress and strain. The third story of the building is devoted to drawing; it is a large and well-lighted room, where thirty students may be accommodated at one time. The equipment includes a number of pieces for study and sketching, such as steam and air pumps, safety valves, shaft hangers, etc.

The following technical mechanical courses are given. For the corresponding electrical courses see under Physics.

Special courses may be arranged to suit the needs of those students intending to continue their engineering studies at other institutions.

I. *Steam Engineering.* A study of the action of steam and gas engines, condensers, air compressors, steam boilers, etc. Horse-power tests are made and efficiencies studied. The thermo-dynamic principles involved are considered in the latter half of the course. Hydraulics, refrigeration, heating, and ventilation are taken up as far as time permits.

Professor Rittenhouse; 5 hours, second half-year.

II. *Elements of Mechanism.* A study of the mechanical movements employed in machinery; various methods of transmitting and transforming motion; a detailed

study of the teeth of wheels. This course includes a series of problems in invention to be solved by the student. At least one drawing-room period a week is devoted to the work of this course.

Professor Rittenhouse and O. M. Chase;

3 hours, second half-year.

III. *Practical Mechanics.* Students in engineering spend at least five hours a week for two and one-half years in the shop and have the privilege of electing extra hours after the completion of the regular course, if the facilities of the shop permit. The course begins with simple exercises in wood-working, including sawing and planing, and progresses through graded exercises in joinery of all kinds, turning, and pattern-making. One year is usually spent in this department, unless the student has previously had practice in wood-working.

The iron-working is begun regularly at the beginning of the Sophomore year. Bench work in filing, chipping, and scraping occupies a half-year. The second half-year is occupied with pipe-fitting, forging, welding, and annealing. Each student is required to make a set of tools to be used in the machine-shop.

The remaining two years are devoted to the use of the various machine tools in executing a series of graded exercises, and, finally, to the construction of a complete machine such as a lathe or engine.

The grades in this course are based upon the faithfulness of the student in his work, his promptness, and his care of tools as well as upon the accuracy of his work and the time occupied on each exercise.

Professor Rittenhouse and G. W. Weaver;

2 hours, or more by arrangement.

IV. *Mechanical Drawing and Machine Design.* The first exercises are designed to give facility in the use of instruments. These are followed by the elementary projection of solids and complicated intersections, a short course in descriptive geometry, and the exact and conventional representation of threads, bolts, and nuts.

Sketching and dimensioning from models are next taken up, and, during the Sophomore year, simple working drawings are made from these sketches. Spur and bevel gear wheels, screw and other gearing, quick return motions, and the various transmission gears are taken up and designed in connection with the course in mechanism.

A number of practical problems in valve gears, involving the plane slide valve, piston valve, Corliss valve, shifting eccentrics, link motions, etc., are solved by each student. The course concludes with the design of a steam or gas engine and complete detail drawings of all working parts, or the equivalent.

O. M. Chase and Professor Rittenhouse;
2 hours, or more by arrangement.

V. *Mechanics of Materials.* A study of the materials employed in engineering constructions, including the manufacture and properties of iron in all its commercial forms of cast iron, steel and wrought iron; the making of alloys; the strength, elasticity, and ductility of metals; the strength of timbers, shafting, girders, trusses, etc.

A series of tests on the screw-testing machine is made by each student.

This course is required of all engineering students during the first half of the Senior year and is an open elective during the second half-year.

Professor Rittenhouse; 3 hours.

PHYSICAL TRAINING.

The Gymnasium contains a main floor, sixty by ninety feet, abundantly equipped with the most improved American and Swedish gymnastic appliances. It has an inclined running track, five feet in width. Adjoining the main floor are offices for the use of the director in physical examination and measurement. These rooms may be further utilized for special work by students taking advanced courses in anatomy and physiology, preparatory to medicine, and by those electing normal courses in physical training. Adjoining the main hall is a large and comfortable reading-room. Above are a trophy room and apartments for the use of the alumni.

The basement contains dressing-rooms, a number of well-ventilated lockers, shower-baths, a swimming pool, and a double bowling alley. There is a special dressing-room provided for the use of the faculty and visiting athletic teams.

A thorough physical examination is given to all students upon entrance, and another at the end of the Sophomore year.

No student whose physical condition is unsatisfactory will be permitted to represent the College on any athletic team.

The work of the department begins with a course of lectures upon anatomy, physiology, and hygiene, given to the Freshman class during the first quarter of the College year. This is followed by systematic gymnastic drill during the two succeeding quarters, three times a week.

A similar course is required during the Sophomore

year and elective courses are open to Juniors and Seniors.

Each student must take one of the following courses:

I. A course in elementary gymnastic drill, with moderate apparatus work.

II. A general course in light and heavy gymnastic work of regular collegiate type.

III. Regular practice with the candidates for the College gymnastic team, for entrance to which gymnastic ability and physical qualifications are requisite.

For additional courses in anatomy and physiology, see pages 64-67.

THE LIBRARY.

The College Library now contains over fifty-five thousand volumes, besides numerous pamphlets. It is arranged with the object of making it especially useful as a library of reference. The students have free access to the shelves and the Librarian and his assistants are, at all times, ready to give aid to students and readers.

About two thousand dollars are expended yearly for the purchase of books and periodicals. The library is a regular depository of the United States Government, and several hundred volumes of publications are annually received.

Approximately one hundred and seventy-five literary and scientific periodicals are taken.

The Library is open, with some exception, on weekdays from 8.30 a. m. to 10 p. m. While designed especially for the use of the officers and students, others have the privilege of consulting and, under certain restrictions, of withdrawing books.

THE CHARLES ROBERTS AUTOGRAPH
COLLECTION.

This autograph collection, formed by the late Charles Roberts, of Philadelphia, a graduate (1864), and for many years a Manager of the College, was in 1902 presented to the College by his wife, Lucy B. Roberts. It consists of more than 11,000 items, embracing not only autograph letters of European and American authors, statesmen, scientists, ecclesiastics, crowned heads, and others, but also several series of valuable papers. The whole collection, covering as it does the period beginning with the late fifteenth century and coming down to the present day, is one of unusual historical and literary interest.

Through the munificence of the donor, it has been housed in a fireproof room and a careful card catalogue prepared. The collection is open for inspection and research on application to the curator, Allen C. Thomas.

HONORS.

1. Honors are awarded for excellence in the studies of single departments. They are never given merely for performance of routine work in courses, but a considerable amount of extra work is demanded in every case.

2. Honors are of three kinds:

(a) *Honorable Mention*, to be awarded for work in a single course, meeting not less than two hours

per week throughout the year, plus additional work to the total amount of not less than 75 hours. Candidates for Honorable Mention must obtain the grade of A in the regular work of the course and pass creditably an examination on the additional work required. Two courses in the same department, taken in successive half-years, may be construed as a single course.

(b) *Preliminary Honors*, to be awarded at the end of either Sophomore, Junior, or Senior year for not less than two years' work, amounting to six hours a week in the courses of a single department, plus additional work to the total amount of not less than 150 hours.

Candidates for Preliminary Honors must obtain a grade of at least B in all courses required for such honors (see § 5 below) and a grade of A in such of these courses as are taken in the year in which they are candidates and must pass creditably examinations on the additional work required.

(c) *Final Honors*, to be awarded upon graduation for work in the courses of a single department, plus additional work to the total amount of not less than 250 hours.

Candidates for Final Honors must take courses amounting to at least ten hours in the department in which they apply for honors, at least six of these hours being in the Junior and Senior years. They must in all of these courses obtain a grade of at least B and in those taken in the Senior Year a grade of A, and must pass creditably examinations on the additional work required. There

are three grades of Final Honors: Honors, High Honors, and Highest Honors. The requirements for High Honors are of a more exacting nature than those for Honors, and Highest Honors are reserved for very exceptional cases. Both High Honors and Highest Honors are awarded only by special vote of the Faculty.

3. Students entering with advanced standing may offer work done elsewhere towards satisfying the requirements for Preliminary or Final Honors.

4. A student who has received the prescribed grade in the regular work of a course required for honors, but who has not done the additional work required in connection with such course, may, with the consent of the professor in charge, make up this deficiency in a later year, but in the case of Final Honors all such deficiencies must be made up by the end of the Junior Year.

5. The minimum requirements in courses for Preliminary Honors (if offered) and for Final Honors are specified on the next page.

COURSES REQUIRED FOR PRELIMINARY AND FINAL HONORS.

	PRELIMINARY HONORS.	FINAL HONORS.
Greek	I, II.	I, II, III, IV, V.
Latin	I, II.	I, II, III, IV, V.
English	None given.	I, II, III, IV, and courses amounting to six hours in V, VIII, IX, X, XI, XII, XIII.
German	I, II.	I, II, III, V, VI.
French	I, II.	I, II, III, IV, V.
Romance	None given.	
Languages		Final Honors in French and Honorable Mention in Spanish I and Italian I.
Mathematics	I, II.	I, II, III, VI.
History	I, II, and III or IV.	I, II, and three of the four courses III, IV, V, VI.
Economics	None given.	I, II, III, IV, V, VI, and VII.
Philosophy	None given.	I, II, III, IV, V, VI.
Biology	II and III or V.	II, III, IV, V, VIII, X.
Chemistry	I, II.	I, II, III, IV.
Physics	I, II and III, or IV and V, or VI.	I, and any three of II and III, IV and V, VI, or VII.
Engineering	None given.	Physics VI, Engineering II, I, V.

GRADING OF STUDENTS.

Students are classified, according to their grades, into five sections, A, B, C, D, E. Each student is notified of the section to which he has been assigned, but the grades are not published. A indicates a grade from 90 to 100, B from 80 to 90, C from 65 to 80, D from 50 to 65, and E indicates a failure. No student is permitted to graduate if his combined average for the Junior and Senior years is below C. Daily recitations, hour examinations, and final examinations are all employed in determining the standing of the student.

DEFICIENT STUDENTS.

Opportunities for the removal of entrance conditions will be given at the regular entrance examinations in June and September and at a special examination in January.

Opportunities for the removal of first half-year conditions will be given in April and September.

Opportunities for the removal of second half-year conditions will be given in September and January.

Conditions should be removed at the first regular re-examination period after failure; if not then removed, a fee of five dollars will be charged for the second regular re-examination period and for each subsequent one.

A student who has failed to remove a condition after two opportunities, or who has taken absences exceeding 40 per cent. of the total number of recitations and lectures in a given course, shall repeat the course and may be registered with the next lower class. The repeated course shall take precedence in the matter of conflicts of all other courses.

ADVANCED DEGREES.

Resident graduates who have received the Bachelor's degree from Haverford College, or graduates of other colleges who, in the judgment of the Faculty, have done work equivalent to that required for the Bachelor's degree at Haverford, may be admitted as candidates for the Master's degree. Such students must submit for the approval of their instructors and the Faculty Committee on Advanced Degrees a plan of study involving the equivalent of twelve hours a week in advanced courses.

Non-resident graduates of Haverford College of three years' standing or more may also be admitted to the Master's degree. They must, however, at the beginning of their work, arrange with the committee a definite course of study and make annual reports during the three years to the instructors in charge.

The candidate must pass an examination satisfactory to his instructors and to the Faculty Committee. At the option of the instructors, a thesis may be required. Previous to the examination the instructors in charge shall file with the committee a statement of the work done by the candidate.

The fee for the Master's diploma is twenty dollars. In the case of non-resident graduates an additional fee of ten dollars is required at the beginning of the course.

PUBLIC LECTURES
1909-1910.

HAVERFORD LIBRARY LECTURES.

"The Newly Found Christian Psalter," by Dr. J. Rendel Harris, of Woodbrooke, England.

3rd mo. 31st, 1910.

"The Heavenly Twins," two lectures by Dr. J. Rendel Harris.

4th mo. 5th and 8th, 1910.

THE THOMAS SHIPLEY LECTURES ON ENGLISH
LITERATURE.

"The Distinction Between Inspired and Uninspired Poetry," by Hon. Stephen G. Coleridge, M.A., of London, England.

2nd mo. 16th, 1910.

"The Causes Which Produce Epochs of Literary and Artistic Genius," by the Honorable James Bryce, British Ambassador.

4th mo. 4th, 1910.

LECTURES DELIVERED UNDER THE AUSPICES OF THE
HAVERFORD COLLEGE SCIENTIFIC SOCIETY.

"Life in the Deep Sea," by Dr. H. S. Pratt.

1st mo. 18th, 1910.

"Radioactivity," by Prof. Arthur W. Goodspeed, Director of the Randal Morgan Laboratory of Physics, of the University of Pennsylvania.

4th mo. 12th, 1910.

Y. M. C. A. LECTURE.

"The Grip of the Labrador," by Edward Balch Barr.
3rd mo. 16th, 1910.

OTHER LECTURES.

"The New Americans and the New Problems," by Professor Edward A. Steiner, of Grinnell College.
3rd mo. 23rd, 1910.

"Chantecler," by A. G. H. Spiers, Ph.D., of Haverford College.
5th mo. 23rd, 1910.

MISCELLANEOUS.

Annual contest in oratory, between the Senior and Junior classes, for the Alumni Prize.

Annual contest in extemporaneous speaking, between the Sophomore and Freshman classes, for the Everett Medal.

5th mo. 17th, 1910.

"L'Eté de la Saint Martin," and "Les Deux Sourds," by the Thursday Afternoon French Class and the students of French IV, Haverford College.

5th mo. 19th, 1910.

Commencement Day. Commencement exercises in Roberts Hall, with address by Dean Frederick S. Jones, of Yale College.

6th mo. 10th, 1910.

ROOMS.

A student who continues in the College may retain the room he already occupies. The vacant rooms are assigned by lot, the upper classmen having first choice. About one-fourth of the rooms in Merion Hall will be reserved for Freshmen. New students may select rooms in the order of entry. For this purpose they must fill certain blanks to be had on application to the President of the College. Signatures to these blanks are considered to bind the students, unless the latter are refused by the College for failure in examinations or other cause. A day is fixed, information of which is given in advance, when new students may choose rooms.

A deposit of \$15 is required of all students, old and new, before a room will be reserved. In case the student occupies the room, the amount will be deducted from his bill for the following year; otherwise, it will be forfeited.

EXPENSES.

The charge for tuition, board, and room-rent varies with the location of the rooms from \$375 to \$575 a year, and accommodations for students are furnished at different rates, as follows:

Merion Hall,	17 at \$375 each.
Merion Hall,	20 at \$400 each.
Founders' Hall,	8 at \$400 each.
Barclay Hall,	6 at \$400 each.
Barclay Hall,	26 at \$450 each.
Barclay Hall,	54 at \$500 each.
Lloyd Hall,	16 at \$575 each.

The room-rent includes steam heat, electric light, necessary bed-room furniture, and care of rooms. Students will supply their own study-room furniture.

The tuition of day-students is one hundred and fifty dollars a year; the charge for tuition and mid-day meal, two hundred dollars a year.

Books and stationery will, at the option of the student, be supplied by the College and charged on the half-yearly bills. Materials consumed and breakage in the laboratories are also charged.

Bills for board and tuition are payable, three-fifths at the beginning, and two-fifths at the middle of the college year.

SCHOLARSHIPS.

I. Senior Foundation Scholarships. Six scholarships of the annual value of \$300 each are offered to graduates nominated by the Faculties of Earlham, Penn, Wilmington, Guilford and Whittier Colleges and Friends' University.

II. Isaiah V. Williamson Scholarships. Three scholarships covering all expenses of board and tuition.

III. Richard T. Jones Scholarship. One scholarship covering all expenses of board and tuition.

(II and III are so arranged that one is usually vacated each year and awarded to a Freshman.)

IV. Corporation Scholarships. Sixteen scholarships of the annual value of \$300 each will be awarded after competitive examination. They are open to all applicants.

For the incoming Freshman class, the award for the following college year is made after the Sixth month ex-

aminations of each year. Candidates in the higher classes are selected each year from those highest on the grade list in the preceding year. Four scholarships are given to each class.

V. Edward Yarnall Scholarship. One scholarship of the annual value of \$200. Open to Friends only.

VI. Thomas P. Cope Scholarship. One scholarship of the annual value of \$200. Open only to Friends who intend to teach.

VII. Sarah Marshall Scholarship. One scholarship of the annual value of \$200.

VIII. Mary M. Johnson Scholarship. One scholarship of the annual value of \$200.

IX. Day Scholarships. Eight scholarships of the annual value of \$100 each.

X. Tuition Scholarships. Twenty-four scholarships of the annual value of \$150 each. One of these may be nominated by the Lower Merion High School for the Freshman year only.

XI. Alfred Smith Scholarship. One scholarship given on competitive examination to a candidate for the Freshman class who is of German-American parentage. The annual value is \$400. It may be held for two or more years if the work of the recipient is satisfactory, and may also be followed by a fellowship of \$400 for one year in Harvard University.

XII. Joseph E. Gillingham Scholarships. Four scholarships of the annual value of \$200 each "for meritorious students."

All scholarships are given for one year only, but they may be renewed by the College (except I) if the conduct and standing of the recipient be satisfactory.

The Senior Foundation Scholarships will thus be vacated yearly, and about one-fourth of the others.

Except IX and a few of X all scholarships involve residence at the College.

FELLOWSHIPS.

The Clementine Cope Fellowship, of the annual value of \$500, may be awarded by the Faculty to the best qualified applicant from the Senior class. He is required to spend the succeeding year in study at some American or foreign university approved by the Faculty.

On the same foundation are offered, yearly, two fellowships of \$300 each, called Teaching Fellowships, involving certain duties at Haverford College. They are construed to cover all the charges for tuition, rooms, and board.

PRIZES.

Alumni Prizes for Composition and Oratory.

The Association of the Alumni, in the year 1875, established an annual prize of \$50, either a gold medal or an equivalent value in books and bronze medal, for excellence in composition and oratory.

The following are the rules governing the competition:

I. The Alumni medal is offered yearly for competition amongst the members of the Junior and Senior classes, as a prize for the best delivered oration prepared therefor.

II. Three or five judges shall be appointed from year to year by the Alumni Committee, who shall hear publicly, in Roberts Hall, all competitors who may be qualified to appear.

III. No oration shall occupy in delivery more than fifteen minutes.

IV. In making the award, while due weight is to be given to the literary merits of the oration, the judges are to consider the prize as offered to encourage more especially the attainment of excellence in elocution.

V. The judges shall have the right to withhold the prize if the elocution and the literary merits of the oration fall below a creditable standard of excellence.

The Everett Society Medal.

This silver medal is offered by the donor to the members of the two lower classes for competition in extemporaneous speaking. It is given in memory of the old Everett Society.

John B. Garrett Prizes for Systematic Reading.

Four prizes, worth \$40, \$30, \$20, and \$10, respectively, will be given in books to those members of the Junior class who, having creditably pursued their regular studies and paid proper attention to physical culture, shall have carried on the most profitable course of reading in standard authors during the Sophomore and Junior years.

The direction of the work and the award of the prizes shall be in the hands of a committee consisting of the President, the Librarian, and the Professor of English.

There will be an oral examination to determine the scope and quality of the reading, and a thesis treating of subjects embraced in the course will be required.

Any or all of these prizes may be omitted if, in the judgment of the committee, the work does not justify an award.

The Class of 1896 Prizes in Latin and Mathematics.

These are two prizes worth \$10 each. They will be awarded in books at the end of the Sophomore year for proficiency in Latin and Mathematics, respectively.

The Class of 1898 Prize in Chemistry.

The Class of 1898 offers a prize of \$10 in books to the member of either the Junior or Senior class who, in the judgment of the professor in charge, shall have done the most thorough and satisfactory work during the year in the laboratory, and in oral and written examinations.

The prize will not be awarded twice to the same student.

The Class of 1902 Prize in Freshman Latin.

The Class of 1902 offers a prize of \$10 in books to the Freshman whose work in recitations and examinations combined shall be the most satisfactory to the professor in charge of the department.

The Mathematical Department Prize in Freshman Mathematics.

The Mathematical Department offers a prize of \$10 in books, to be awarded at the end of the Freshman year, to the most proficient student in Mathematics.

The Elliston P. Morris Prize.

A prize of \$80, open to all undergraduates and to graduates of not more than three years' standing, is offered in alternate years for the best essay on "International Peace and the Means of Securing It." The next award will be made in the Fifth month of 1912, and will be announced at Commencement. Any or all of the papers may be rejected if a high standard of merit is not reached. Competitors are urged to avoid mere discussion and fine writing, and to seek the advancement of knowledge by a study of facts or a proposal of practical advantage. The essays of 1912 shall be written on one of the following subjects:

1. The grounds for believing that The Hague Conference will become a substitute for war.
2. The ethical grounds for opposition to war.
3. Will the economic burden of war, and of national armaments in time of peace, force the nations of the world to adopt peaceful methods of settling disputes?

SOCIETIES.

The Loganian Society, the oldest in the College, was founded in 1834, "for mutual improvement in Literature and Science." At the time of its reorganization, in 1906, its interests had extended so as to necessitate three departments—Civic, Scientific and Debating. In 1908 the Civic Department withdrew to organize the Civic Club, and in 1909 the Scientific Department withdrew to reorganize the Scientific Society. The Loganian Society proper thus exists only as a Debating Club, and as such has control of the inter-class debates. A Classical Club

has been established for the reading of papers and the discussion of current problems.

A branch of the Young Men's Christian Association, organized in 1879, has a membership embracing a majority of the students.

A chapter of the Phi Beta Kappa Society was established at the College in 1898.

The Campus Club is an organization of the Faculty, students, and other friends of the College for promoting the study and preservation of trees, shrubs, birds and wild animals on the College property.

PERIODICALS.

Haverford College Bulletin. Eight publications for the collegiate year in uniform type and binding, including the College Reports, Catalogue, Athletic Annual, and other matter.

The Haverfordian, founded in 1879, is published monthly by the students during the college year.

College Weekly, founded in 1909, is published weekly by the students during the college year.

DEGREES, PRIZES AND HONORS
GRANTED IN 1910.

At the Commencement in 1910, degrees were granted after examination to the following students:

MASTERS OF ARTS.

Morris Albert Linton, S.B. (Haverford College).

Subject—Mathematics and Physics.

Alfred Lowry, Jr., A.B. (Haverford College).

Subject—French Literature.

Francis Richards Taylor, A.B. (Haverford College).

Thesis—Sovereignty and the Suability of States.

BACHELORS OF ARTS.

Edward Page Allinson	Harrison Streeter Hires
Lawrence Haney Barrett	John Donald Kenderdine
William Thomas Boyce	George Allen Kerbaugh
Earl Shinn Cadbury	Christopher Darlington
Charles Fygis Clark	Morley
Edward Wandell David	Samuel Abraham
Henry Davis	Rabinowitz
Charles Mitchell	Willard Pyle Tomlinson
Froelicher	Horace Raymond
Evan Pennock Gheen	Townsend
John Clinton Green	James Whitall
William Lloyd Garrison Williams	

BACHELORS OF SCIENCE.

Julian Scott Bryan	Earle Nelson Edwards
Donald Bush Cary	Ralph Roscoe Else
Hollie Ernest Crow	Harold Alan Furness

Carroll Austin Haines
Charles Scott Leininger
Henry Carvill Lewis
Reginald Hollingsworth
Morris

Walter Palmer
John Phillips Phillips
Charles Scott Ristine
Alfred Stokes Roberts
Comly Bird Shoemaker,
2nd

FELLOWSHIPS.

Fellowships, prizes and honors were awarded as follows:

The Clementine Cope Fellowship (\$500) for 1910-11,
Willard Pyle Tomlinson.

Two Teaching Fellowships (\$300 each) for 1910-11,
John Phillips Phillips.
James Whitall.

PRIZES.

The Alumni Prize in Composition and Oratory (\$50 in Books),

Ralph Roscoe Else.
Honorable Mention—William Thomas Boyce and
Lucius Rogers Shero.

*The Everett Society Medal in Extemporaneous Speaking
for Sophomores and Freshmen,*

Oliver Moore Porter.

The John B. Garrett Prizes (\$100 in books) for Systematic Reading during the Sophomore and Junior Years:

First Prize (\$40).....Levi Arnold Post.

Second Prize (\$30).....Joseph Haines Price.

The Third and Fourth Prizes were not awarded.

The Class of 1896 Prizes (in books) in Latin and Mathematics, for Sophomores,

Latin (\$10).....Arthur Lindley Bowerman.

Mathematics (\$10).....Mark Balderston.

The Class of 1898 Prize in Chemistry (\$10 in books) for Seniors and Juniors,

John Steele Downing.

The Class of 1902 Prize in Latin (\$10 in books) for Freshmen.

Divided between Joseph Moorhead Beatty, Jr., and George Montgomery.

The Mathematical Department Prize in Mathematics (\$10 in books) for Freshmen,

Norris Folger Hall.

The Elliston P. Morris Prize (\$80) offered in Alternate Years for the best Essay on "International Peace and the Means of Securing It,"

Edward Wandell David.

HONORS.

Seniors elected to the Phi Beta Kappa Society:

Christopher Darlington	Willard Pyle Tomlinson
Morley	William Lloyd Garrison
Edward Wandell David	Williams

Juniors elected to the Phi Beta Kappa Society:

Levi Arnold Post

General Honors (an average of 90 per cent., or over, for the Junior and Senior Years):

Christopher Darlington Morley, Edward Wandell David

Honors in Departments:

FINAL HONORS.

Edward Wandell David,	
Mathematics, Philosophy and English	
Christopher Darlington Morley.....	English
Willard Pyle Tomlinson.....	English and Philosophy
William Lloyd Garrison Williams....	Greek and Latin

PRELIMINARY HONORS.

Mark Balderston.....	Mathematics
John Saeger Bradway.....	Latin
Arthur Lindley Bowerman.....	Latin
Paul Clisby Brewer, Jr.....	German
John Steele Downing.....	Chemistry
Levi Arnold Post.....	Greek and Latin

Lucius Rogers Shero.....	Greek and Latin
Frederick Oscar Tostenson.....	German
William Lloyd Garrison Williams.....	Mathematics

HONORABLE MENTION.

Mark Balderston.....	Physics I
Louis Fleming Fallon.....	Freshman Mathematics
Norris Folger Hall.....	Freshman Mathematics
George Montgomery.....	Greek I
Herbert Victor Nicholson.....	Freshman Algebra
Levi Arnold Post.....	Spanish I
Alfred Clarence Redfield,	
Freshman Trigonometry and Solid Geometry	
Alan Sedgwick Young.....	Economics I

Corporation Scholarships.

These \$300 scholarships are awarded annually to the four students in each class having the highest average scholarship for the year. In some cases the money is applied, at the option of the holder, to students of greater financial need, the original recipient retaining the honor.

Holders of Corporation Scholarships for the collegiate year 1910-11.

Class of 1911

Levi Arnold Post	Victor Franz Schoepperle
Lucius Rogers Shero	Ebenezer Hall Spencer

Class of 1912

John Hollowell Parker	Hans Froelicher, Jr.
Mark Balderston	Arthur Lindley Bowerman

Class of 1913

Joseph Moorhead Beatty, Norris Folger Hall
Jr. John Valentine Van Sickle
Charles Otis Young

Class of 1914

Edward Rice, Jr. Harry Offerman
Walter Gregory Bowerman Lewis Julius Feinstein

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Haverford College Bulletin

VOL. IX

THIRD MONTH, 1911

No. 5

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Haverford College, Haverford, Pa.

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FACULTY NOTES.

Dr. F. B. Gummere will, between March 23rd and 28th inclusive, give six lectures on *Democracy and Poetry* at North Western University, Evanston, Illinois. These are the Norman W. Harris Lectures for 1911.

Dr. Hancock has temporarily given up his place. Mr. E. K. Maxfield comes to us from the Graduate School of Harvard to carry on the work for the balance of the year. He was last year Instructor in English in Delaware College. Dr. Hancock had broken down from overwork, and the sad death of his little daughter was the final blow. He will take his sabbatical year in Europe in 1911-12 and his doctors promise a complete recovery of health at no distant date.

Dr. Reid will also spend the coming college year abroad.

Drs. Pratt and Baker, now respectively in Austria and Greece, will return to the college in the fall.

Henry J. Cadbury, 1903, will next year have entire charge of the department of Biblical Literature. This will probably make it more efficient than under the former plan of subdivision. The subject will be elective in the senior and junior years.

It is much more easy than a decade ago to find Haverford graduates who are competent to take positions at Haverford. It is not wise to have too many, for colleges must be somewhat cosmopolitan. But it is a satisfaction to know that Haverford is now producing a goodly line

of scholars who are fit to take positions in any good American college.

The Science Hall is completed, awaiting only furniture, equipment and a name. As to the last the only suggestion so far made, perhaps not seriously, has been *Lyman Hall*. Our respected chemical professor's last name does not lend itself easily to the purpose.

A little time ago the president was walking along a Philadelphia street with a Haverfordian, who asked about the subscriptions to the building fund of the new hall. The president replied that he was still a little short, and that he was also doubtful as to where to procure the money for furniture and equipment, and for the adaptation of the old chemical quarters to the uses of physics and biology. He also added that the amount needed would probably be \$15,000. Upon this our friend immediately remarked that he would be one of eight to give \$2,000 each, one of four to give \$4,000 each or one of three to give \$5,000 each. When the proposition was mentioned to another friend, he by return mail offered to join on any one of the three plans, and a short time after a third friend who had not even been asked but who had heard of it, wrote voluntarily taking the third place on the \$5,000 basis.

Hence the equipment is taken care of liberally, and the small deficiency on the building will, it is hoped, be met in the same spirit.

Extensive improvements are likely to be undertaken to the West of our college land. The Haverford Development Company has secured some 300 or 400 acres, and has sold to the Merion Cricket Club for golf purposes a tract of 117 acres, which immediately adjoins the Haverford property. This affords not only a convenient place for our golf lovers, but protects the college from the near intrusion of houses of an undesirable character.

The balance of the land of the Development Company is to be sold in large lots to owners who will build

rather expensive houses, insuring a certain character to the neighborhood.

Incidentally, the improvements will protect from contamination our spring of pure water, from which the college is supplied, a matter which in this vicinity is becoming of increasing importance.

A short time ago a prominent engineer stated that "the failure to advance and the limitations of young engineers have nearly always been due to one of two things, (a) lack of proper understanding of fundamentals and (b) lack of breadth." The probable reason for this is that at most technical schools the major portion of the curriculum is devoted to the strictly "technical" courses, and, as a consequence, fundamental principles are often forgotten. In the Haverford engineering course the conditions are reversed, the major portion of the time being devoted to fundamentals and broad culture.

The college is not the place to specialize in engineering work. It is beyond the scope of any educational institution to give, within the comparatively short period of four years, much more than a fundamental grounding in mathematics, physics and chemistry, the substructure of all engineering. These subjects of course are required of our engineering students. Our technical engineering courses are designed to supplement and correlate the work of these three departments. In other words, the technical courses form a connecting link between the fundamental principles and their practical application. If more than this is attempted, it is only accomplished by the sacrifice of some other work, equally if not more important. At Haverford no sacrifices are necessary, and engineering students are required to take as much work in English and other cultural studies as the students in the other courses. In fact only about one-fourth of the total time is given to the technical studies. It may be interesting to note how the time is divided in our course and how it compares with the course at one of the prominent technical schools. For purposes of comparison we can logically divide it into three principal parts.

	ENGINEERING COURSE.	HAVERFORD.	TECHNICAL COLLEGE.
I.	THE SUBSTRUCTURE OF ENGINEERING. (FUNDAMENTALS.) Mathematics, Physics, Chemistry.	24 hours	20 hours
II.	CULTURAL STUDIES. (BREADTH.) Languages, English, History, Ethics, etc..	22 hours	3 hours
III.	TECHNICAL STUDIES. (FUNDAMENTALS APPLIED.) Mechanics, Electricity, Steam.	20 hours	43 hours
	Total "hours" in the four years' course..	66	66

One half of the work required of our engineering students is required of all students at Haverford. Frequently one half of the remaining work is taken in common by engineering and arts students. The difference in the courses is never as much as fifty per cent. and may be only twenty-five per cent. In regard to physical and moral development there are no different "courses." All students are on a par.

If you know a young man desiring to take up engineering work, let him know what Haverford can do for him and let him also know what Haverford men have done. We are not emphasizing this side of our work, but within the lines mentioned above it is efficient.

The keynote of the work of the Physical Department for 1911-12 will be the fostering of universal student participation in Athletics between the hours of 4.00 and 6.00 of each afternoon. In furtherance of this and based upon his general utility in the various athletic branches, J. J. Guiney has been engaged as football field coach and general assistant in the department of Physical Training. In addition a special football coach will be engaged for certain periods during the fall. H. Norman Thorn will continue to hold the position of Head Coach.

As begun this year, local championship events in various branches will be arranged for stimulating student interest and alumni attendance.

Haverford College Bulletin

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THE HAVERFORD UNION.

ANNUAL MEETING.

In pursuance of the Constitution and By-Laws of The Haverford Union, the annual meeting will be held on the first day of June, at 5 o'clock. At that time, or at a subsequent time to which the meeting may adjourn, the annual election of officers will be held and general business transacted.

The following nominations for office have been made and duly posted:

President: Rufus M. Jones, '85.

Vice-Presidents (3 to be elected): Horace E. Smith, '86; W. Percy Simpson, '91; W. Nelson L. West, '92.

Secretary: Edward W. Evans, '02.

Board of Governors (5 to be elected): Isaac Sharpless; Alfred Percival Smith, '84; Frederic H. Strawbridge, '87; John L. Scull, '05; Leonard C. Ritts, '12; James M. Beatty, Jr., '13.

Art and Literary Committee (10 to be elected): Same as last year.

Additional nominations may be inserted in the above list up to within three days of the annual meeting if supported by the signatures of thirty active members.

The architect of the Haverford Union suggested that "the furnishings, including any desirable interior decoration, be completed so as to attain high artistic merit and be harmonious as a whole, as well as in its several parts, or rooms." To carry this suggestion into effect, the President, Dr. Rufus M. Jones, at the January meeting of the Board of Governors, appointed a Special Committee.

This Committee has kept before it the general purposes for which the various parts of the building were set apart in the admirable pamphlet issued a year ago. It is the purpose of the Committee to see that every detail of the furnishing has not only practical, but artistic value, so as to make in every room, real *Centres of Interest*, having in mind the purposes for which the rooms are to be used.

Thus it is proposed that in the *Reading Room*, low bookcases shall be so arranged as to leave cosy-corners, or nooks, where student and graduate may at will enjoy a quiet hour in reading or study. This will afford ample opportunity for placing pictures and portraits of literary, historic and artistic value. In the near future, the Committee hopes to make public the plans which are now in preparation for the complete furnishing of the *Reading Room*. When finished, it is believed that not only the undergraduate body but also the alumni and friends of the College, will find this a most restful and comfortable place in which to spend a quiet hour.

Other *Centres of Interest* will be developed as opportunity offers. Three bedrooms, now temporarily furnished, will be furnished permanently as soon as plans can be perfected and the necessary funds secured.

The Committee will, from time to time, submit plans, specifications and estimates, and it is hoped that these will so appeal and commend themselves that the funds needed, in addition to those now in the treasury, will be *gladly volunteered* by the members and numerous friends of the Union.

The Committee is desirous of having a widespread interest in the Union, so that through the united efforts of many friends, the aptness of our Association's name, *The Union*, may be abundantly justified, and that through The Union the interest in Haverford, among students, professors and alumni may be made deeper and more loyal.

During the year the "Union" has witnessed many events of a musical, literary and social character.

The excellent acoustics of the Auditorium have been fully demonstrated.

The "Union" has \$1,000 or more derived from Life Membership fees, for the purpose of investment.

The College has received from Theodore H. Morris, '60, an oil portrait of Richard T. Jones, '63. He was the son of the greatest benefactor of Haverford, Jacob P. Jones.

Accompanying the portrait is the following poem, written after the death of Richard T. Jones, by Thomas Chase, President of Haverford College from 1874 to 1886:

IN MEMORIAM. R. T. J.

Here is the dainty book,
"Homeri Odysseia."
Aldus's name on the page,
Dolphin and anchor are here,
"Venetiis" reads the Imprint.
MDXVII.

Clearcut and graceful the type,
Perfect in every line,
Ah, such in manners and mind
Lovely and graceful and true,
Precious and valued and prized,
White-souled and noble and pure,
Was he, my pupil, my friend,
Who on Italia's strand
Found thee and gained thee my book
And on thy unsullied page
Wrote *his* name together with mine —
Pure were his hands from guile,
Free was his tongue from deceit—
Always the friend of the right,
Always the foe of the wrong;
Cheerful and kindly to all,
Cultured and polished, yet strong,
Sidney and Bayard was he,
Knight without shame or reproach!
How can I think he is dead?
Nay, he is not dead, but lives,
And nor his learning nor grace,
Culture nor manners nor mind,
Now all so fondly recalled,

Nay now are thought of at all—
As I bethink me with joy,
Joy for a blood-stained soul;
How all his trust was in Christ
And how through Him, The Beloved,
Victor he is over death.

T. C.

For a number of years past there have been intimations given by students that our hospital facilities at Haverford are not what they should be. No one has probably seriously suffered for lack of necessary attention, but the demands have not always been met in accordance with the most approved sanitary skill of the day.

Through the initiative of Dr. Babbitt, a movement was started to secure an up-to-date infirmary, separate from the other college buildings. The students volunteered to take this matter into their own hands and to attempt to raise a fund of \$15,000 for necessary building and equipment.

They had made some start in their campaign, when John T. Morris, '67, was approached for a subscription. He, after some consideration, intimated a willingness to put up the building as a memorial to his brother. This generous offer was enthusiastically accepted, but the student movement was continued in order to raise a \$10,000 endowment. This is intended to provide for the additional expense to the college involved by the building, and to some extent for a trained nurse who will be continuously in residence throughout the term time.

This fund has now been completed and the enterprise seems assured of success. It is too early to announce anything with regard to plans, but it is presumed that the location will be just west of the cricket shed, to the left of the path as you go out to the observatory.

The whole movement is interesting as indicating a helpful spirit, not only on the part of the many contributors to the fund, but also in the student body, whose energy and excellent arrangements, led by a member of the Senior class, have made the result possible.

HAVERFORD COLLEGE BULLETIN

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No. 5. 7

Athletic Number

1910-1911



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Haverford College Athletics



1910-1911



*Edited in the Interest of
Haverford Athletics, by*

JAMES A. BABBITT, M. D.

*Director of the
Physical Department*

Press of
THE JOHN C. WINSTON CO.
1006-1016 Arch Street,
Philadelphia, Pa.

PREFACE

As indicated in the remarks by President Sharpless, at the dinner of the Joint Alumni and Student Athletic Committee, the past year has been a most favorable one in the splendid tone and athletic spirit of the college. In the Athletic Record here presented, the college has a most creditable percentage of athletic victories in the various lines of official college sport, and there has been a rather larger participation than heretofore by the general student body. In the plan of organization for next year, adequate provision will be made for coaching the various college teams, more careful arrangements will be made for the required physical classes, and the keynote of the department will lie in the expression, "Every College Student a College Athlete."

HAVERFORD COLLEGE, June 1, 1911.

Haverford College

Department of Physical Education

ISAAC SHARPLESS, Sc.D., LL.D., L.H.D.,

President.

JAMES ADDISON BABBITT, A.M., M.D.,

Physical Director and Associate Professor of
Physiology.

ALFRED LORANUS ATWOOD, A.B.,

Instructor in Physical Training.

J. J. GUINEY,

Assistant in Physical Training.

GEORGE BENNETT,

Coach of Cricket Teams.

FRANK HUISH,

Coach of Soccer Teams.

R. L. FUERLE,

Coach of Gymnasium Team.

Athletic Council, 1910-1911

DR. J. A. BABBITT, *Chairman ex-officio*

J. P. PHILLIPS, '10, *Chairman*

L. C. RITTS, '12, *Secretary*

D. S. HINSHAW, '11

E. R. LEVIN, '11

J. K. PATRICK, '11

L. A. POST, '11

V. F. SCHOEPPERLE, '11

H. G. TAYLOR, '11

W. J. YOUNG, '11

D. P. FALCONER, '12

Athletic Association

L. A. POST, '11—*President*

C. E. HIRES, JR., '13—*Secretary*

R. M. GUMMERE, '02—*Treasurer*

Joint Committee on Athletics, 1910-11

Alumni Members

J. W. SHARP, *Chairman*

HENRY COPE	W. C. LOWRY
DR. T. F. BRANSON	CHAS. J. RHOADS
J. H. SCATTERGOOD	A. M. COLLINS
DR. F. B. JACOBS	A. C. MAULE
DR. F. C. SHARPLESS	H. S. DRINKER
C. C. MORRIS	H. N. THORN

Faculty Members

PRESIDENT ISAAC SHARPLESS
DR. JAMES A. BABBITT

Undergraduate Members

E. R. LEVIN, '11	H. G. TAYLOR, JR., '11
W. J. YOUNG, '11	D. S. HINSHAW, '11
V. F. SCHOEPFERLE, '11	W. P. FALCONER, '12
J. K. PATRICK, '11	J. P. PHILLIPS, '10

Constitution of Haverford College Athletic Association

Name.

ARTICLE 1. This Association shall be known as the Haverford College Athletic Association.

Members.

ARTICLE 2. All undergraduates are eligible as Active Members, and all graduates, ex-students and members of the Faculty of Haverford College are eligible as Associate Members of this Association.

Departments.

ARTICLE 3. This Association shall consist of six departments, namely, Cricket, Football, Soccer, Gymnasium, Track and Tennis.

Department Officers.

ARTICLE 4. Section 1. The Active Members of this Association shall, not later than the close of each collegiate year, elect the following officers for each department:

(a) Cricket: There shall be a Manager, an Assistant Manager and a Ground Committee consisting of two Seniors and two Juniors, who will serve in conjunction with the Captain in choosing teams to represent the college in this sport.

(b) Football: There shall be a Manager, two Assistant Managers, four sub-Assistant Managers, a Cheerleader and two Assistant Cheerleaders in this department.

(c) Soccer: There shall be a Manager, two Assistant Managers, and a Ground Committee consisting of two Seniors and two Juniors, who will serve in conjunction with the Captain in choosing teams to represent the college in this sport.

(d) Gymnasium: There shall be a Manager and an Assistant Manager in this department.

(e) Track: There shall be a Manager and an Assistant Manager in this department.

(f) Tennis: There shall be a Manager and an Assistant Manager in this department.

Captains.

Section 2. The regular members of each team, as selected by the committee in charge of awarding the "H" shall, not later than the close of each collegiate year, elect a captain for the ensuing year.

Association Officers.

Section 3. The Active Members of this Association shall, not later than at the close of each collegiate year, elect the following officers of the Association:

First—A President who shall be a Senior.

Second—A Secretary, who shall be a Sophomore.

Joint Committee on Athletics.

ARTICLE 5. There shall be a Joint Committee on Athletics which shall consist of thirteen Alumni members, appointed by the Alumni Association, two Faculty members, and the captains and managers of the different athletic departments of this Association.

Section 1. This Joint Committee shall have the final decision in all important athletic matters which may arise in connection with the college.

Section 2. This Joint Committee shall elect a Treasurer for the Association.

Department Expenses.

ARTICLE 6. The manager of each department shall confer with the Treasurer of the Association on all financial questions connected with his department.

Treasurer.

ARTICLE 7. The Treasurer shall receive and be the custodian of all funds belonging to the Association, and shall disburse the same according to his best judgment. He shall publish an annual report in some undergraduate publication, fully itemized, and showing the exact expenses of each department. His accounts should be audited annually, by an expert appointed by the joint

committee. He shall see that donations for special uses are so expended.

Dues.

ARTICLE 8. The annual dues of all Active Members shall be seven and one-half (\$7.50) dollars. The annual dues of the Associate Members shall be five (\$5.00) dollars.

Section 1. Taking \$7.50 as the basis, the dues shall be divided between the different departments as follows: (a) Cricket, \$1.50; (b) Football, \$2.00; (c) Soccer, \$1.50; (d) Gymnasium, \$0.50; (e) Track, \$1.00, and (f) Tennis, \$1.00.

Special Meetings.

ARTICLE 9. The President or the Manager of any department may call a meeting of the Association at any time.

Nominating Committee.

ARTICLE 10. There shall be a nominating committee composed of three Seniors, two Juniors, and one Sophomore. All the officers of this Association, except the Treasurer, shall be nominated by this committee. Any additional nominations shall be posted at the signed request of ten members.

Admission to Events.

ARTICLE 11. Every Associate Member of the Association, in good standing, shall receive a card admitting him to all home athletic contests.

Amendments and By-Laws.

ARTICLE 12. The Joint Committee shall make such further Rules and Regulations, as may seem necessary, from time to time, but these articles shall not be amended except by two-thirds vote of the active members, after a week's notice.

Regulations for Awarding Insignia, Haverford College

I.

All committees for awarding college emblems shall be held responsible to the Athletic Association.

II.

The Varsity H for all branches of athletics shall be of a uniform shape, and either of two sizes. The H shall conform to the one of the two standard patterns which shall be kept by the Athletic Association.

III. FOOTBALL.

The football sweater shall be scarlet, with black neck, wristlets and waistband with a black H. The wristlets and waistband shall each be three and one-half ($3\frac{1}{2}$) inches in width.

The football jersey shall be black with striped sleeves, a scarlet neck and a scarlet waistband, with a scarlet H. The stripes, which shall be two inches wide, shall be alternate scarlet and black.

Men not holders of a football H shall not wear any part of the uniform except on the football field.

The football H shall be awarded each year by the captain, manager, and coach of the football department. No more than twelve "H's" shall be awarded in any one year, and these shall be awarded to the most deserving men.

IV. CRICKET.

The cricket colors shall consist of the cricket sweater, the scarlet and black blazer and cap, and the scarlet and black sash. The cricket sweater shall be white with a low neck, and a lower waistband of scarlet and black, one and one-half ($1\frac{1}{2}$) inches wide, and shall have on the breast a scarlet Varsity H.

The cricket colors shall be awarded each year by the Ground Committee of the Cricket Department. Colors shall be awarded

to the most deserving players each year, and shall be limited to eleven in number.

V. TRACK.

The track uniform shall consist of a white sleeveless jersey and white running trousers, with scarlet and black stripes down the sides and with a scarlet and black waistband.

The track Varsity sweater shall be a plain scarlet sweater, and the track H shall be a black Varsity H on both the sweater and the jersey.

The track H shall be awarded each year by the captain, manager, and a director of the Track Department at their discretion. The following men only shall be eligible for consideration:

(a) Men who have won a point or part of a point in the annual meet of the I. C. A. A.,

(b) Men who have won one first place and three (3) other points; or who have tied for first place and won three (3) other points.

(c) Members of a winning relay team in the relay carnival at Franklin Field who have won three points in dual meets during the season.

VI. GYMNASIUM.

The gymnasium department expects to get a new uniform this year, so everything in this department was left to be voted upon later.

VII. SOCCER.

The soccer uniform shall consist of a gray shirt with a scarlet and black sash running diagonally over the right shoulder; khaki trousers and gray stockings. Any man who has played in two intercollegiate games shall be entitled to wear the college seal on the pocket of his shirt.

The soccer sweater shall be a plain white coat sweater with a scarlet Varsity H. The soccer H shall be awarded each year by the Ground Committee of the Soccer Association, to not more than five (5) men.

VIII. VARSITY CAP.

There shall be a Varsity cap, which may be worn by the holders of any Varsity H. This cap shall be a plain black Eton cap, with a scarlet H, which shall be one and one-half ($1\frac{1}{2}$) inches in height and one (1) inch in width, and which shall conform in shape to the Varsity H.

IX. WEARING OF EMBLEMS.

No person shall be entitled to wear any emblems, uniforms, or parts of uniforms above mentioned, except on the field or in a meet, until that person shall have been authorized to do so by the committees having charge of the same.

X. HATS AND CAPS.

No person shall wear an H, either plain or in monogram, on any hat or cap except on the Varsity cap.

XI. CLASS NUMERALS.

Numerals may be worn only by those who have won them, upon the regulation class jersey—a black jersey with scarlet cuffs, waistband, neck, and numerals—or on any style sweater, except the Varsity sweater, in black or scarlet and black.

Numerals shall be awarded by the same committee that awards the corresponding H in each department, subject to the following regulations:

Football—Numerals may be awarded to Sophomores and Freshmen who play in the Sophomore-Freshman game. And to not more than five (5) Seniors and Juniors, deserving them for good, conscientious work during the season, either on the Scrub or on the Varsity; except that those who receive their Varsity H shall not be awarded numerals. The awards shall be made each year.

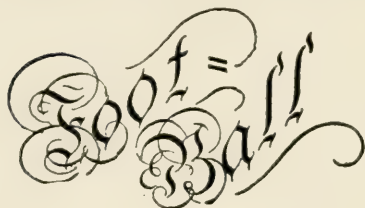
Cricket—Numerals may be awarded to not more than six (6) members of the team winning the Class Championship, and to not more than four (4) members of any of the other class teams, and they shall be awarded to the most deserving each year.

Track—The winning of a first place and three (3) additional

points in the Sophomore-Freshman track meet or a first place in the Interclass track meet secures numerals.

Tennis—The college champion in singles shall be awarded numerals.

Association Football—Numerals may be awarded to not more than six (6) members of the team winning the Class Championship, and to not more than four (4) members of any of the other class teams, and they shall be awarded to the most deserving each year.



—SEASON—

1911

Chairman

J. ASHEROOK, '11

Vice-Chairman

K. A. RHOAD, '12

Manager

J. K. PATRICK, '11

Assistant Managers

L. C. RITTS, '12

D. P. FALCONER, '12

Captain

E. R. LEVIN, '11

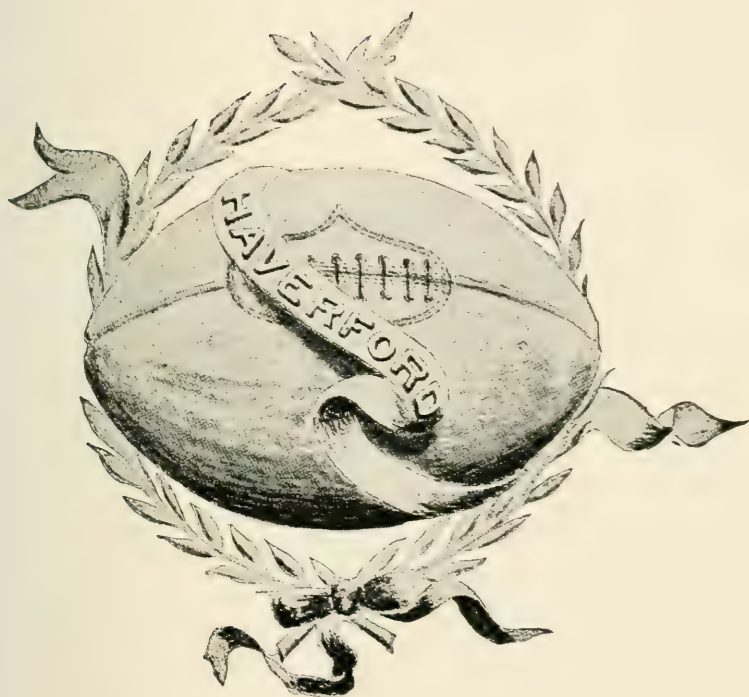
Coaches

A. L. ATWOOD

J. J. GUINEY

Haverford College Football Team

E. R. LEVIN, '11 (Captain)	Quarter-back
L. A. POST, '11	Center
W. D. HARTSHORNE, JR., '11	Right Halfback
D. S. HINSHAW, '11	Fullback
E. WALLERSTEIN, JR., '12	Right Halfback
O. M. PORTER, '13	Left Halfback
F. G. SMILEY, '12	Left End
D. C. MURRAY, '12	Right End
C. T. MOON, '12	Left Guard
F. M. FROELICHER, '13	Right Guard
J. A. BROWNLEE, '12	Left Tackle
C. W. LONGSTRETH, '13	Right Tackle



Foot Ball Season 1910

First Team

Oct. 1.	Haverford..22	Temple.....	0	at Haverford
Oct. 8.	Haverford.. 5	Delaware.....	5	at Haverford
Oct. 15.	Haverford.. 5	Lehigh	0	at S. Bethlehem
Oct. 22.	Haverford.. 0	Rutgers.....	0	at Haverford
Oct. 29.	Haverford.. 0	F. & M.	0	at Haverford
Nov. 5.	Haverford.. 5	Johns Hopkins....	15	at Haverford
Nov. 12.	Haverford.. 0	Trinity.....	37	at Hartford
Nov. 19.	Haverford.. 0	Ursinus.....	24	at Haverford

Second Team

Oct. 4.	Haverford..30	Southern Manual..	0	at Haverford
Oct. 11.	Haverford.. 0	Haverford School..	12	at Haverford
Oct. 24.	Haverford..25	Haverford School..	5	at Haverford

Interclass Foot Ball Games

Nov. 11.	Juniors	3	Sophomores	0 (W)
Nov. 18.	Seniors	7	Juniors	0 (W)
Nov. 22	Sophomores	17	Freshmen	0

Wearers of Foot Ball H

E. R. LEVIN, '11 (Captain)	W. D. HARTSHORNE, '11
L. A. POST, '11	C. T. MOON, '12
D. S. HINSHAW, '11	D. C. MURRAY, '12 Capt.-Elect.
F. G. SMILEY, '12	J. A. BROWNLEE, '12
E. WALLERSTEIN, '12	W. C. LONGSTRETH, '13
F. FROELICHER, '13	O. M. PORTER, '13

Wearers of Foot Ball Numerals

1911

W. J. YOUNG	H. G. TAYLOR
J. S. BRADWAY	J. W. TEBBETTS
V. E. SCHOEPPERLE	D. D. REYNOLDS
W. D. HARTSHORNE, JR.	

1912

J. A. COPE	H. M. THOMAS, JR.
H. M. LOWRY	ED. WALLERSTEIN, JR.
I. C. POLEY	F. G. SMILEY
K. A. RHOD	J. A. BROWNLEE

1913

W. S. CROWDER	J. D. LUDLAM
F. A. CURTIS	N. H. TAYLOR
C. E. HIRES, JR.	O. M. PORTER
F. M. FROELICHER	L. R. THOMAS
W. Y. HARE	J. V. VAN SICKLE
W. C. LONGSTRETH	WM. WEBB

1914

P. H. SANGREE	R. C. SMITH
H. W. TAYLOR	

D. D. REYNOLDS—Holder of cup for most faithful player of the Scrubs.

P. H. SANGREE, '14—Holder cup for most faithful Freshman.



FOOT BALL TEAM.

Association (Soccer) Foot Ball, 1910-11

W. J. YOUNG, '11, *Chairman*

W. H. ROBERTS, '12, *Vice-Chairman*

D. S. HINSHAW, '11, *Manager.*

T. E. SHIPLEY, '12, *Asst. Manager*

W. J. YOUNG, '11, *Captain*

Soccer Ground Committee

D. S. HINSHAW, '11

H. G. TAYLOR, '11

W. J. YOUNG, '11

D. C. MURRAY, '12

L. M. SMITH, '12

Champion Haverford College Soccer Team

W. J. YOUNG, '11 (Captain)	Center Half
J. S. DOWNING, '11	Center
W. D. HARTSHORNE, '11	Right Back
H. G. TAYLOR, '11	Right Half
F. O. TOSTENSON, '11	Left Back
L. M. SMITH, '12 (Capt.-Elect)	Left Half
D. C. MURRAY, '12	Goal
L. R. THOMAS, '13	Outside Right
J. S. BENTLEY, '14	Outside Left
T. W. ELKINTON, '14	Inside Right
S. E. STOKES, '14	Inside Left
C. T. MOON, '12	Substitute
D. D. REYNOLDS, '11	Substitute

Season 1910-11

First Team

Nov. 26.	Haverford.. 4	Phila. Electric. ... 0 at Haverford
Dec. 3.	Haverford.. 3	Princeton 1 at Princeton
Dec. 10.	Haverford.. 2	West Phila. 3 at Haverford
Dec. 17.	Haverford.. 1	Victor 1 at Haverford
Jan. 7.	Haverford.. 2	Belmont 3 at Haverford
Jan. 14.	Haverford.. 1	Moorestown 0 at Moorestown
Jan. 21.	Haverford.. 1	Pennsylvania 1 at Haverford
Jan. 28.	Haverford.. 2	Holmesburg 2 at Haverford
Feb. 4.	Haverford.. 2	Belmont Merion .. 1 at Haverford
Feb. 18.	Haverford.. 1	West Phila. 2 at Haverford
Feb. 22.	Haverford.. 1	Merion Belmont .. 2 at Haverford
Feb. 25.	Haverford.. 3	Merion C. C. 1 at Haverford
*Mar. 4.	Haverford.. 3	Pennsylvania 1 at Haverford
*Mar. 11.	Haverford.. 0	Columbia 1 at New York
*Mar. 18.	Haverford.. 4	Harvard 0 at Cambridge
Mar. 25.	Haverford.. 1	Moorestown 0 at Haverford
*Apr. 1.	Haverford.. 2	Yale 2 at Haverford
*Apr. 8.	Haverford.. 2	Cornell 1 at Haverford

Haverford....35

Opponents....22

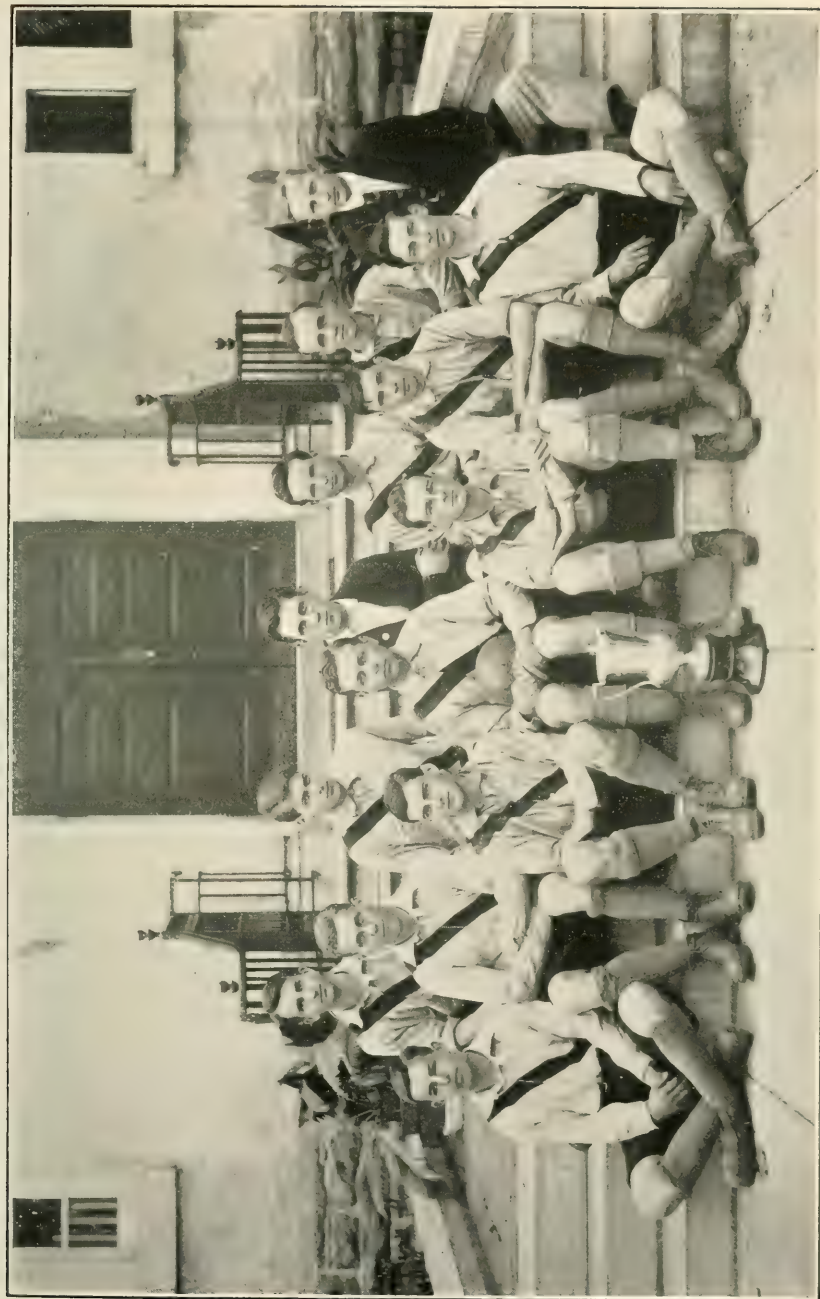
*Championship.

Second Team

Dec. 3.	Haverford.. 0	Westtown 1 at Westtown
Dec. 10.	Haverford.. 3	Penn 2d. 1 at Haverford
Dec. 17.	Haverford.. 4	Germantown 2d... 0 at Haverford
Jan. 7.	Haverford.. 1	Merion 2d. 2 at Haverford
Jan. 14.	Haverford.. 4	Phila. Electric 0 at Haverford
Jan. 21.	Haverford.. 0	Penn 2d. 0 at Haverford
Feb. 4.	Haverford.. 0	Phila. Electric 2 at Haverford
Feb. 11.	Haverford.. 1	Collingsw'd Res. .. 1 at Haverford
Mar. 18.	Haverford.. 3	Phila. Electric 1 at Haverford

Haverford....16

Opponents.... 8



SOCGER TEAM.

Third Team

Jan. 7.	Haverford.. 3	Haverford Sch. .. 2 at Haverford
Mar. 4.	Haverford.. 4	Yeates 1 at Haverford

Class Games

Dec. 3.	1913..... 1	Westtown 3 at Westtown
Jan. 9.	1912..... 0	Haverford Sch. .. 0 at Haverford
Jan. 17.	1914..... 3	1913 0 at Haverford
Jan. 18.	1911..... 1	1912 0 at Haverford
Feb. 16.	1911..... 1	1914 1 at Haverford
Mar. 22.	1911..... 1	1914 0 at Haverford
Mar. 25.	1913..... 1	1912 (w) 0 at Haverford

Wearers of Soccer H

TOSTENSON, '11	D. C. MURRAY, '12
H. G. TAYLOR, '11	L. M. SMITH, '12 (Capt.-elect)
W. J. YOUNG, '11	J. S. BENTLEY, '14

Soccer Numerals Awarded**1911**

W. D. HARTSHORNE	J. S. DOWNING
A. S. YOUNG	CHARLES WADSWORTH, 3D
	D. D. REYNOLDS

1912

M. BALDERSTON	J. A. COPE
C. G. DURGIN	C. T. MOON

1913

W. C. LONGSTRETH	W. S. CROWDER
	L. R. THOMAS

1914

T. W. ELKINTON	F. C. STOKES
S. E. STOKES	L. V. H. THOMAS

Intercollegiate Soccer Team

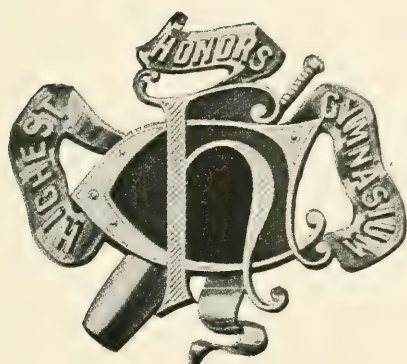
Final Standing of Teams

	Won	Lost	Tied
* { Haverford	3	1	1
{ Harvard	3	1	1
Columbia	2	1	2
Pennsylvania	2	3	0
Yale	1	2	2
Cornell	0	3	2

*Points scored to decide champion:

Haverford, 11; Opponents, 5.

Harvard, 10; Opponents, 6.





J. H. CLARK, JR., '11—*Chairman*

W. H. ROBERTS, JR., '12—*Vice-Chairman*

V. F. SCHOEPPERLE, '11—*Manager*

A. L. BAILY, '12—*Assistant Manager*

J. P. PHILLIPS, '10—*Captain*

Haverford College Gymnasium Team, 1910-11

J. P. PHILLIPS, '10, *Captain*

E. WALLERSTEIN, JR., '12, *Captain-Elect*

A. L. BAILY, '12

W. H. STEERE, '12

P. G. BAKER, '13

P. C. GIFFORD, '13

C. H. CROSMAN, '13

F. P. STIEFF, JR., '13

R. HOWSON, '13

DOUGLAS WAPLES, '14

December 16, Interclass Meet at Haverford.

January 21, Quadrangular Exhibition (Haverford, New York, Pennsylvania and Princeton) at Haverford.

January 24, Dual Exhibition with Friends' Neighborhood Guild, at Philadelphia.

January 27, Dual Exhibition with St. Luke's, at Wayne.

February 11, Dual Meet with Rutgers at New Brunswick.

February 16, Exhibition under the auspices of the Y. M. C. A. at Chester.

February 17, Interscholastic Meet at Haverford.

February 24, Dual Meet with Pennsylvania at Haverford.

March 4, Exhibition by Philadelphia Turngemeinde at Haverford.

March 11, Dual Meet with Lehigh at Haverford.

March 20, Intercollegiate Meet at New Haven.

Interclass Meet

December 16, 1910

HORIZONTAL BAR—Stieff, '13; Waples, '14; Tomlinson, '13.

CLUBS—Baily, '12; Waples, '14; Gifford, '13.

PARALLEL BARS—Waples, '14; Howson, '13; Hires, '13.

RINGS—Waples, '14; Porter, '13; Stieff, '13.

SIDE HORSE—Steere, '12; Waples, '14; Crosman, '13.

TUMBLING—Wallerstein, '12; Waples, '14; Porter, '13.

Points.

Freshmen (1914) 22

Sophomores (1913) 17

Juniors (1912) 15

After this meet the class competed in the Round-up for the silver cup presented by Dr. J. A. Babbitt. The cup was awarded to the Juniors, 1912.

Annual Quadrangular Gymnastic Exhibition

January 21, 1911

HORIZONTAL BAR.

Stieff, Tomlinson, Waples	HAVERFORD
Miller, Cremer, Brookov	NEW YORK
Clark, Hay	PRINCETON
Heap, Erb, Hill, Kelly	PENNSYLVANIA

SIDE HORSE.

Phillips, Steere	HAVERFORD
Cremer, Miller	NEW YORK
Hay, Sealy	PRINCETON
Kelly, Lawton, Brinton	PENNSYLVANIA

RINGS.

Stieff, Waples	HAVERFORD
Clark, Erben	PRINCETON
Kelly, Hunt, Hackett	PENNSYLVANIA

BALANCING TRAPEZE.

W. Wallace, Jr.	PRINCETON
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PARALLEL BARS.

Crosman, Howson, Waples	HAVERFORD
Miller, Cremer, Brookov	NEW YORK
Clark, Hay, Harding	PRINCETON
Heap, Erb, Graham, Hill, Kelly	PENNSYLVANIA

CLUB SWINGING.

Baily, Baker, Gifford	HAVERFORD
Russell, Phillips	NEW YORK
Brinton, Schmidt, Smith, Sylvester	PENNSYLVANIA

TUMBLING.

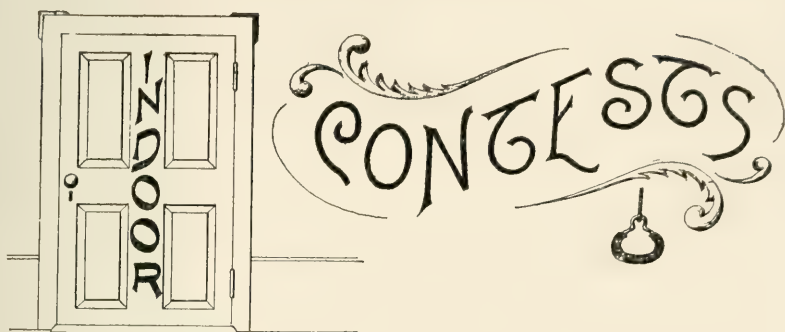
Vance	PRINCETON
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TORCH SWINGING.

Baily, Baker, Gifford, Waples	HAVERFORD
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GYMNASIUM TEAM.



Rutgers Meet

February 11, 1911

HORIZONTAL BAR—First, Anderson, Rutgers; second, Waples, Haverford.

SIDE HORSE—First, White, Rutgers; second, Phillips, Haverford.

CLUB SWINGING—First, Nelson, Rutgers; second, Briggs, Rutgers.

PARALLEL BARS—Wilsey, Rutgers; Gaipa, Rutgers; (tie).

FLYING RINGS—First, Henszey, Rutgers; second, Waples, Haverford.

TUMBLING—First, Wallerstein, Haverford; second, Silvers, Rutgers.

Score: Rutgers, 34; Haverford, 14.

Pennsylvania Meet**February 24, 1911**

HORIZONTAL BAR—First, Graham, Pennsylvania; second, Kelly, Pennsylvania.

SIDE HORSE—First, Lawton, Pennsylvania; second, Kelly, Pennsylvania.

FLYING RINGS—First, Waples, Haverford; second, Heap, Pennsylvania.

PARALLEL BARS—First, Heap, Pennsylvania; second, Kelly, Pennsylvania.

CLUB SWINGING—First, Baily, Haverford; second, Brinton, Pennsylvania.

TUMBLING—First, Perkins, Pennsylvania; second, Wallerstein, Haverford.

Score: Pennsylvania, 35; Haverford, 13.

Lehigh Meet**March 11, 1911**

HORIZONTAL BAR—First, Bley, Lehigh; second, Waples, Haverford; third, Wallerstein, Haverford.

SIDE HORSE—First, Phillips, Haverford; second, Flick, Lehigh; third, Steere, Haverford.

CLUB SWINGING—First, Baily, Haverford; second, Kester, Lehigh; third, Baker, Haverford.

PARALLEL BARS—First, Tremblett, Lehigh; second, Waples, Haverford; third, Phillips, Haverford.

FLYING RINGS—First, Waples, Haverford; second, Jannis, Lehigh; third, Elliott, Lehigh.

TUMBLING—First, Baily, Lehigh; second, Wallerstein, Haverford; third, Waples, Haverford.

Score: Haverford, 29; Lehigh, 25.

Intercollegiate Gymnasium Contest

March 20, at New Haven

FLYING RINGS—Waples, '14, third.

CLUB SWINGING—Baily, '12, third (tie).

Recipients of Insignia

H. D. Waples, '14.

H. G. T. J. P. Phillips, '10.

H. G. T. E. Wallerstein, Jr., '12.

Douglas Waples, '14, was elected a member of the Executive Committee of the Intercollegiate Amateur Association of Gymnasts of America.

Interscholastic Meet

Committee

J. P. PHILLIPS, *Chairman*

DR. J. A. BABBITT	E. R. SPAULDING
D. S. HINSHAW	E. R. LEVIN
L. C. RITTS	J. K. PATRICK
DR. R. M. GUMMER	C. E. HIRES, JR.

V. F. SCHOEPPERLE, *Manager*.

Judges

DR. J. A. BABBITT	DR. W. E. BURDICK
PROF. N. M. CROMBIE	W. H. HIRES
E. A. EDWARDS	H. J. CADBURY
J. BUSHNELL, 3D	E. N. EDWARDS

A. M. COLLINS

Starter

MR. M. J. MURPHY, U. of P.

Referee

DR. GEO. W. ORTON

Schools Participating

BORDENTOWN MILITARY INSTITUTE

DELANCY SCHOOL

EPISCOPAL ACADEMY

FRIENDS' CENTRAL SCHOOL

FRIENDS' SELECT SCHOOL

GERMANTOWN ACADEMY

GERMANTOWN FRIENDS' SCHOOL

HAVERFORD SCHOOL

LAWRENCEVILLE SCHOOL

LOWER MERION HIGH SCHOOL

MOORESTOWN FRIENDS' ACADEMY

NEWARK ACADEMY

PENNINGTON SEMINARY

PINGRY SCHOOL

ST. LUKE'S SCHOOL

HOME INSTITUTE

WILMINGTON FRIENDS' SCHOOL

HIGH JUMP—First, Merriam, Lawrenceville School; second, Johnson, Lawrenceville School; third Robinson, Haverford School. Height, 5 feet 8½ inches.

PARALLEL BARS—First, Frazier, Episcopal Academy; second, Webster, Newark Academy; third, Massey, Episcopal Academy.

HORIZONTAL BAR—First, Brown, Episcopal Academy; second, Milton, Lawrenceville School; third, Massey, Episcopal Academy.

CLUB SWINGING—First, Keffer, Episcopal Academy; second, Krease, Episcopal Academy; third, Cooper, Lawrenceville School.

ROPE CLIMB—First, Frazier, Episcopal Academy; second, Kutz, St. Luke's School; third, Massey, Episcopal Academy.

SIDE HORSE—First, Underwood, Lawrenceville School; second, Seiberling, Lawrenceville School; third, Sutton, Haverford School.

RELAY RACES—(Boys under 14 years)—Episcopal Academy; Haverford School; Lawrenceville School.

TUMBLING—First, McGregor, Home Institute; second, Phillips, Lawrenceville School; third, Wright, St. Luke's School.

FLYING RINGS—First, Crawford, Haverford School; second, Massey, Episcopal Academy; third, Crosman, Haverford School.

200-YARD DASH—First, Lippincott, Episcopal Academy; second, Sutton, Haverford School; third, Williams, Germantown. Time, 22 seconds.

20-YARD DASH—First, Lippincott, Episcopal Academy; second, Durrett, Haverford School; third, Toole, Lawrenceville School.

Meet won by Episcopal Academy.



Track Department, 1911

D. D. REYNOLDS, '11—*Chairman*

I. C. POLEY, '12—*Vice-Chairman*

E. R. LEVIN, '11—*Manager*

F. G. SMILEY, '12—*Assistant Manager*

D. P. FALCONER, '12—*Captain*

Track Team 1911

D. P. FALCONER, '12, *Captain*

E. R. SPAULDING, '11	A. L. BOWERMAN, '12
A. L. BAILY, JR., '12	H. FROELICHER, JR., '12
J. A. BROWNLEE, '12	J. H. PARKER, '12
C. T. MOON, '12	F. M. FROELICHER, '13
W. S. CROWDER, '13	H. V. NICHOLSON, '13
W. C. LONGSTRETH, '13	L. R. THOMAS, '13, <i>Capt. elect</i>
J. P. GREEN, '14	E. M. JONES, '14
CHARLES WADSWORTH, '11	R. P. MCKINLEY, '14

Relay Carnival, Franklin Field

April 29, 1911

Haverford College Relay Team

CHARLES WADSWORTH, 3D, '11	W. C. LONGSTRETH, '13
L. R. THOMAS, '13	E. M. JONES, '14
J. H. PARKER, '12 (<i>sub</i>)	D. P. FALCONER, '12, <i>Capt. (sub)</i>

FORDHAM, First.

NEW YORK, Second.

JOHNS HOPKINS, Third.

HAVERFORD, Fourth.

PITTSBURG, Fifth.

Time, 3.32

The Walton Prize Cup

Presented by Mr. Ernest F. Walton, of the Class of 1890, for the encouragement of individual athletic work, and to be awarded annually to the student who wins the highest total of points in athletic competition during the college year, and subject to the following conditions:

1. The athletic events accepted shall be those of the annual interclass athletic meeting, the sophomore-freshman athletic sports, the Pennsylvania relay carnival, the annual Princeton handicap games, and the I. C. A. A. A. A. meeting. Additional events may be accepted at the discretion of the committee of award. (Dual college meets now included.)

2. Points shall count as follows:

INTERCLASS ATHLETIC MEETING—Five, three and one for first, second and third places.

SOPHOMORE-FRESHMAN SPORTS—Three, two and one for first, second and third places.

DUAL COLLEGE MEETS—Five, three and one for first, second and third places, respectively.

PENNSYLVANIA RELAY CARNIVAL—Five or three points for each member of the team winning first or second place.

PRINCETON HANDICAP MEETING—Ten, six and two for first, second and third places.

I. C. A. A. A. A. MEETING—Twenty, fifteen, ten and five points for first, second, third and fourth places, respectively.

3. The athletic sub-committee of the general advisory athletic committee of the alumni and students shall constitute the committee of award.

4. The winner of the Cup shall hold the same for one year and his name with total points won shall be inscribed upon it.

5. The Cup shall be returned to the athletic director immediately after the Intercollegiate Meeting (I. C. A. A. A. A.), and shall be re-awarded within the two weeks following the same meeting.

6. The conditions above outlined may be modified at the unanimous wish of the joint student and alumni committee, with the consent of the donor.

Holders of the Walton Prize Cup

1901—J. W. REEDER	1902.....	23
1902—J. W. REEDER	1902.....	53½
1903—T. K. BROWN, JR.,	1906.....	42
1904—T. K. BROWN, JR.,	1906.....	45
1905—T. K. BROWN, JR.,	1906.....	58½
1906—T. K. BROWN, JR.,	1906.....	77
1907—WALTER PALMER	1910.....	62
1908—WALTER PALMER	1910.....	66
1909—G. S. BARD	1909.....	55½
1910—WALTER PALMER	1910.....	60
1911—F. M. FROELICHER	1913.....	67½

Sophomore Freshman Track Meet

October 18, 1910

100-YARD DASH—Thomas, '13, first; Green, '14, second. Time, 10 3-5 seconds.

HALF-MILE—Crowder, '13, first; Van Sickle, '13, second. Time, 2 minutes 19 seconds.

220-YARD HURDLES—Green, '14, first; Waples, '14, second. Time, 30 1-5 seconds.

220-YARD DASH—Thomas, '13, first; Green, '14, second. Time, 25 seconds.

440-YARD DASH—Longstreth, '13, first; Jones, '14, second. Time, 58 seconds.

POLE VAULT—Froelicher, '13, first; Elkinton, '14, second. Height, 7 feet 2 inches.

SHOT PUT—Froelicher, '13, first; Taylor, '14, second. Distance, 36 feet 7¼ inches.

HIGH JUMP—Froelicher, '13; Nicholson, '13 (tie). Height, 5 feet 1 inch.

Score: Sophomores, 1913, 43; Freshmen, 1914, 29.



TRACK TEAM.

The Annual Interclass Spring Athletic Meet

April 7, 1911

100-YARD DASH—first, L. R. Thomas, '13; second Jones, '14; third, Parker, '12. Time, 11 1-5 seconds.

440-YARD DASH—First, W. C. Longstreth, '13; second, Ludlam, '13; third, Jones, '14. Time, 57 seconds.

ONE-MILE RUN—First, Wadsworth, '11; second, Spaulding, '11; third, Van Sickle, '13. Time, 4 minutes 58 seconds.

220-YARD HURDLES—First, Wadsworth, '11; second, McKinley, '14; third, Hartshorne, '11. Time, 30 2-5 seconds.

HIGH JUMP—First, Froelicher, '13; second, Nicholson, '13; third, Hartshorne, '11. Height, 5 feet 3½ inches.

SHOT PUT—First, Froelicher, '13; second, Hartshorne, '11; third, Baily, '12. Distance, 37 feet 10 inches.

DISCUS THROW—First, Moon, '12; second, Hartshorne, '11; third, Baily, '12. Distance, 90 feet 4 inches.

220-YARD DASH—First, Thomas, '13; second, Jones, '14; third, Longstreth, '13. Time, 24 seconds.

HALF-MILE—First, Wadsworth, '11; second, Crowder, '13; third, Longstreth, '13. Time, 2 minutes 11 seconds.

TWO-MILE—First, Bowerman, '12; second, Spaulding, '11; third, Froelicher, '12. Time, 11 minutes 31 seconds.

120-YARD HURDLE—First, McKinley, '14; second, Wadsworth, '11; Third, Hartshorne, '11. Time, 18 seconds.

POLE VAULT—First, Froelicher, '13; second, Wallerstein, '12; third, L. Ferris, '12. Height, 9 feet.

BROAD JUMP—First, Froelicher, '13; second, Hobbs, '11; third, Wallerstein, '12. Distance, 18 feet 9½ inches.

HAMMER THROW—First, Moon, '12; second, Brownlee, '12; third, Baily, '12. Distance, 105 feet 11 inches.

RELAY RACE—Won by Sophomores, 1913, (Crowder, Tatnall, Hare, Nicholson, Curtis, Ludlam, Longstreth, Thomas); Juniors; Freshmen; Seniors.

Score:

Sophomores	51
Seniors	35
Juniors	33
Freshmen	15

Lehigh—Haverford**At South Bethlehem, May 3, 1911**

- 100-YARD DASH—First, Thomas, Haverford; second, Murphy, Lehigh. Time, 10 1-5 seconds.
- 220-YARD DASH—First, Murphy, Lehigh; second, Thomas, Haverford. Time, 24 1-5 seconds.
- 440-YARD DASH—First, Jones, Haverford; second, Bickley, Lehigh. Time, 52 2-5 seconds.
- HALF-MILE—First, Falconer, Haverford; second, Knox, Lehigh. Time, 2 minutes 8 4-5 seconds.
- MILE—First, Wadsworth, Haverford; second, Davies, Lehigh. Time, 4 minutes 58 1-5 seconds.
- TWO-MILE—First, Dawson, Lehigh; second, Smith, Lehigh.
- 120-YARD HURDLES—First, Graham, Lehigh; second, Wadsworth, Haverford. Time, 18 seconds.
- 220-YARD HURDLES—First, Schultz, Lehigh; second, Graham, Lehigh. Time, 28 seconds.
- HIGH JUMP—First, Froelicher, Haverford; second, Nicholson, Haverford. Height, 5 feet 3½ inches.
- BROAD JUMP—First, Froelicher, Haverford; second, Murphy, Lehigh. Distance, 19 feet 3 inches.
- HAMMER THROW—First, Wells, Lehigh; second, Moon, Haverford. Distance, 105 feet 11 inches.
- SHOT PUT—First, Froelicher, Haverford; second, Wells, Lehigh. Distance, 37 feet 4 inches.
- DISCUS THROW—First, Wells, Lehigh; second, Baily, Haverford. Distance, 101 feet 2 inches.
- POLE VAULT—Graham, Lehigh; Van Nort, Lehigh, tie. Height, 10 feet.

SCORE.

Lehigh	62
Haverford	50

Franklin and Marshall—Haverford**At Haverford, May 10, 1911**

100-YARD DASH—First, Thomas, Haverford; second, Parker, Haverford. Time, 10 3-5 seconds.

220-YARD DASH—First, Thomas, Haverford; second, Parker, Haverford. Time, 23 2-5 seconds.

440-YARD DASH—First, Jones, Haverford; second, Longstreth, Haverford. Time, 54 4-5 seconds.

HALF-MILE—First, Crowder, Haverford; second, Falconer, Haverford. Time, 2 minutes 10 1-5 seconds.

MILE—First, Wadsworth, Haverford; second, Oberholtzer, Franklin and Marshall. Time, 4 minutes 54 1-5 seconds.

TWO-MILE—First, Walker, Franklin and Marshall; second, Bowerman, Haverford. Time, 11 minutes 4 seconds.

HIGH HURDLES—First, Wadsworth, Haverford; second, Bridenbaugh, Franklin and Marshall. Time, 18 1-5 seconds.

LOW HURDLES—First, Green, Haverford; second, Bridenbaugh, Franklin and Marshall. Time, 29 2-5 seconds.

BROAD JUMP—First, Roberts, Franklin and Marshall; second, Froelicher, Haverford. Distance, 20 feet 6¾ inches.

HIGH JUMP—Froelicher, Haverford; Nicholson, Haverford, tie. Height, 5 feet ¾ inch.

POLE VAULT—First, Porterfield, Franklin and Marshall; second, Porter, Haverford. Height, 9 feet 10½ inches.

HAMMER THROW—First, Moon, Haverford; second, Coldbaugh, Franklin and Marshall. Distance, 107 feet 3½ inches.

SHOT PUT—First, Froelicher, Haverford; second, Jaeger, Franklin and Marshall. Distance, 36 feet 4 inches.

SCORE.

Haverford	74
Franklin and Marshall	30

New York—Haverford**At New York, May 20, 1911**

100-YARD DASH—First, Lauer, New York; second, Thomas, Haverford. Time, 10 3-5 seconds.

220-YARD DASH—First, Lauer, New York; second, Thomas, Haverford. Time, 23 1-5 seconds.

440-YARD DASH—First, Jones, Haverford; second, Green, Haverford. Time, 54 1-5 seconds.

HALF-MILE—First, Smith, New York; second, Crowder, Haverford. Time, 2 minutes 8 seconds.

MILE—First, Wadsworth, Haverford; second, McAdam, New York. Time, 4 minutes 56 2-5 seconds.

TWO-MILE—First, Bowerman, Haverford; second, Garnjost, New York. Time, 11 minutes 18 seconds.

HIGH HURDLES—First, Wadsworth, Haverford; second, McKinley, Haverford. Time, 18 1-5 seconds.

LOW HURDLES—First, Crawford, New York; second, Green, Haverford. Time, 28 4-5 seconds.

BROAD JUMP—First, Lauer, New York; second, Froelicher, Haverford. Distance, 20 feet 11½ inches.

HIGH JUMP—Froelicher, Haverford; Nicholson, Haverford, tie. Height, 5 feet 4 inches.

POLE VAULT—White, New York; Whittier, New York, tie. Height, 9 feet.

HAMMER THROW—First, Moon, Haverford; second, Murphy, New York. Distance, 109 feet 9 inches.

SHOT PUT—First, Froelicher, Haverford; second, McKay, New York. Distance, 36 feet 9¼ inches.

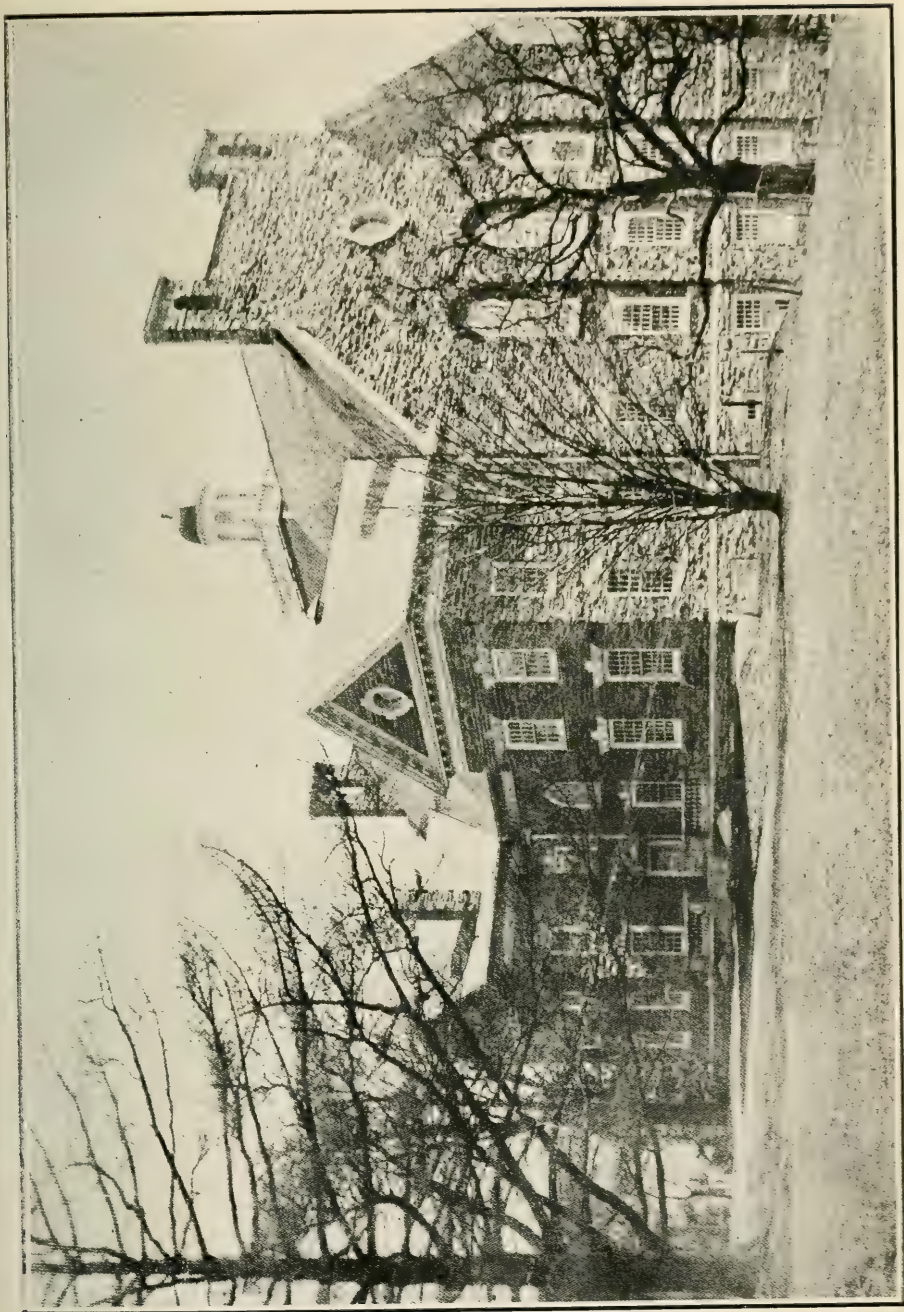
SCORE.

Haverford	59
New York	45



<i>Event.</i>	<i>Time or Distance.</i>	<i>Made by.</i>	<i>Date.</i>
*100-Yard Dash		W. M. McConnell, '13..	*1910
220-Yard Dash	22 3-5 sec...	W. Palmer, '10.....	1908
440-Yard Dash	50 1-5 sec...	W. Palmer, '10.....	1910
Half-Mile	2 m. 3 4-5 sec...	E. C. Tatnall, '07.....	1905
Mile	4 m. 35 sec...	P. J. Baker, '10.....	1907
Two-Mile	10 m. 22 sec...	W. K. Miller, '06.....	1906
High Hurdles	15 4-5 sec...	T. K. Brown, Jr., '06....	1905
Low Hurdles	26 sec...	W. Palmer, '10.....	1910
Broad Jump	21 ft. 25/8 in...	T. K. Brown, Jr., '06....	1905
High Jump	6 ft. 1 in...	E. B. Conklin, '99.....	1899
Shot	37 ft. 10 in...	F. M. Froelicher, '13....	1911
Hammer	123 ft. 6 in...	H. W. Jones, '05.....	1905
Discus	99 ft. 11 in...	R. Else, '10.....	1910
Pole Vault	10 ft. 6 1/2 in...	G. S. Bard, '09.....	1907

*Equaled by L. R. Thomas, '13, 1911.



HAVERFORD COLLEGE GYMNASIUM.

Wearers of Track H

CHAS. WADSWORTH, '11.

D. P. FALCONER, '12.

W. S. CROWDER, '13.

H. V. NICHOLSON, '13.

L. R. THOMAS, '13.

A. L. BOWERMAN, '12.

C. T. MOON, '12.

F. M. FROELICHER, '13.

D. M. PORTER, '13.

J. P. GREEN, '14.

E. M. JONES, '14.

Track Numerals Awarded to

W. C. LONGSTRETH, '13

R. P. MCKINLEY, '14

Tennis Department

CHARLES WADSWORTH, 3D, '11, *Manager*

Team

L. C. RITTS, '12, *Captain*

J. W. TEBBETTS, '11

J. V. VAN SICKLE, '13

L. V. H. THOMAS, '14

Fall Tournament

Ritts, '12, defeated Wadsworth, '11, 6-1, 6-2, 6-2 (final round).

Tournaments

May 10—Haverford, 4; Lafayette, 4.

May ..—Haverford, 2; Lehigh, 3.

May 23—Haverford, 5; Swarthmore, 0.

May ..—Haverford, ..; Faculty, ...

Haverford—Swarthmore Tournament

May 23, 1911

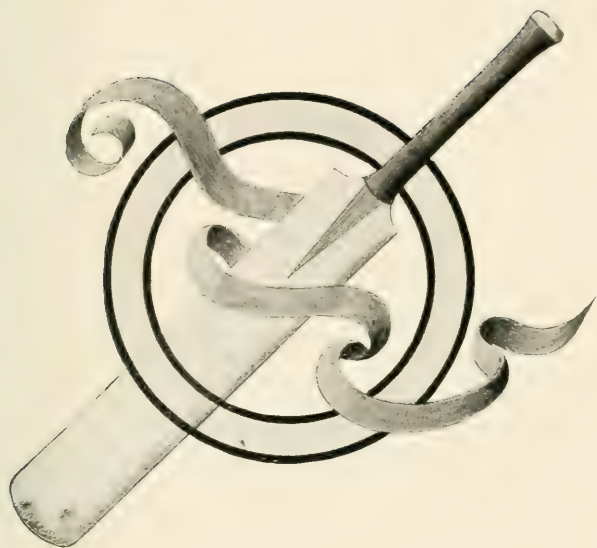
L. C. Ritts (H) defeated T. Taylor (S) 6-3, 2-6, 6-0.

J. W. Tebbetts (H) defeated A. Ayres (S) 6-2, 6-3.

L. V. H. Thomas (H) defeated E. E. Ayres (S) 4-6, 6-1, 6-3.

L. C. Ritts and J. W. Tebbetts (H) defeated E. E. Ayers and A.
Ayers (S) 6-2, 6-4.

Score: H. 5; S. 0.



Cricket Department

W. D. HARTSHORNE, JR., '11, *Chairman*

LEONARD C. RITTS, '12, *Vice-Chairman*

W. J. YOUNG, '11, *Manager*

LLOYD M. SMITH, '12, *Asst. Manager*

H. G. TAYLOR, JR., '11, *Captain*

GEORGE BENNETT, *Coach*

Ground Committee

J. S. DOWNING, '11

H. G. TAYLOR, JR., '11

W. D. HARTSHORNE, JR., '11

L. C. RITTS, '12

W. H. ROBERTS, JR., '12

Cricket Schedule, 1911

First Eleven

April 22—Alumni at Haverford.

April 29—Frankford at Summerdale.

May 6—Philadelphia C. C. at St. Martin's.

May 13—Merion C. C. at Cope Field.

May 20—Cornell at Haverford.

May 25—Pennsylvania at Merion C. C.

May 27—Germantown C. C. at Haverford.

May 31—West Philadelphia at Forty-ninth and Arch.

June 3—Interscholastic at Haverford.

June 8—Pilgrims at Haverford.

June 10—Frankford at Haverford.

Second Eleven

April 22—Alumni at Haverford.

April 29—Merion Second at Haverford.

May 9—Pennsylvania Second at Haverford.

June 1—Haverford School at Cope Field.

June 7—Germantown Second at Manheim.

Third Eleven

April 14—Westtown at Haverford.

April 27—Northeast M. T. S. at Haverford.

April 29—Williamson at Haverford.

May 2—Central High at Haverford.

May 9—Drexel Institute at Haverford.

May 17—Penn Charter at Haverford.

May 18—Westtown at Westtown.

May 22—Northeast M. T. S. at Haverford.

Class Games

May 16, 18—1914, 115; 1913, 62.

May 17, 23—1912, 83 (7 W); 1911, 73.

Winners to play for championship May 29, 30.

Cricket Prizes

First Eleven

Colors—E. W. David, '10; H. A. Furness, '10; J. S. Downing, '11;
H. G. Taylor, '11; A. L. Baily, '12; H. Howson, '12; W. H.
Roberts, Jr., '12.

Cope Prize Bat for Best Average—H. A. Furness, '10.

Congdon Prize Ball—L. R. Thomas, '13.

Haines Prize Fielding Belt—H. A. Furness, '10.

Second Eleven

Class of '85 Prize Bat—H. Ferris, Jr., '11.

Class of '85 Prize Ball—L. M. Smith, '12.

Class of '85 Prize Fielding Belt—C. O. Young, '13.

Other Prizes

Improvement Bat—H. M. Thomas, '12.

Shakespeare Bat—C. H. Crosman, '13.

C. R. Hinchman Prize Bat—J. S. Downing, '11.

Christian Febiger Prize Bat—H. A. Furness, '10.

Prize Bat, Best Freshman Batsman—C. H. Crosman, '13.

Prize Ball, Best Freshman Bowler—L. R. Thomas, '13.

Prize Cup to All-around Freshman—C. H. Crosman, '13.

College Weekly Bat—E. W. Davids, '10.

Class of '85 Prize Ball—Class of 1910.



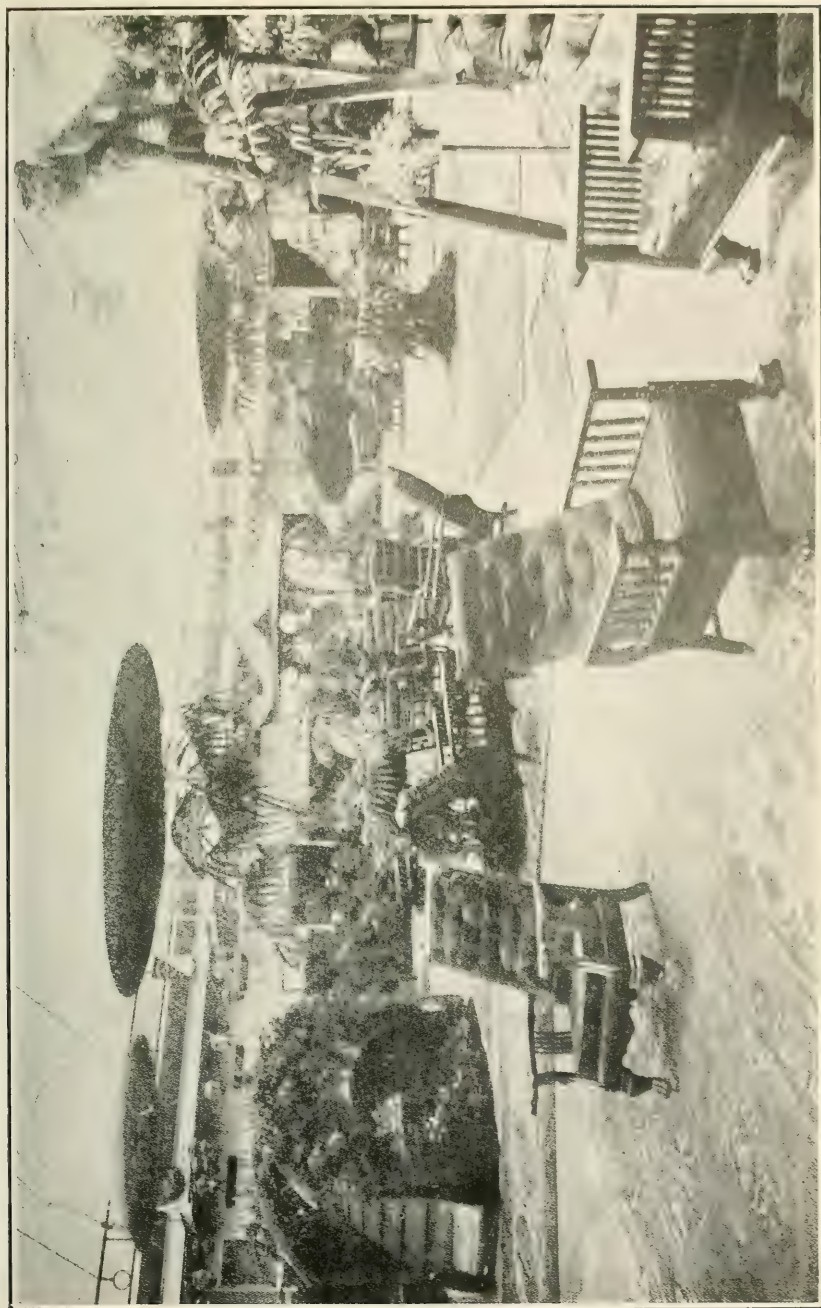
CRICKET TEAM.

Cope Prize Bat

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Average</i>
1877—	E. T. COMFORT	'78.....	18.83
1878—	E. T. COMFORT	'78.....	10.03
1879—	SAMUEL MASON	'80.....	14.
1880—	SAMUEL MASON	'80.....	17.57
1881—	T. N. WINSLOW	'81.....	12.5
1882—	G. B. SHOEMAKER	'83.....	9.6
1883—	W. F. PRICE	'81.....	11.88
1884—	SAMUEL BETTLE	'85.....	17.25
1885—	SAMUEL BETTLE	'85.....	23.
1886—	G. S. PATTERSON	'88.....	32.8
1887—	A. G. GARRETT	'87.....	35.66
1888—	T. E. HILLES	'88.....	9.6
1889—	R. L. MARTIN	'92.....	13.
1890—	C. H. BURR, JR.	'89.....	19.14
1891—	J. W. MUIR	'92.....	38.5
1892—	J. W. MUIR	'92.....	26.25
1893—	J. A. LESTER	'96.....	100.5
1894—	J. A. LESTER	'96.....	62.2
1895—	J. A. LESTER	'96.....	49.83
1896—	J. A. LESTER	'96.....	41.1
1897—	C. G. TATNALL	'97.....	9.85
1898—	T. WISTAR	'98.....	21.75
1899—	F. C. SHARPLESS	1900.....	26.
1900—	F. C. SHARPLESS	1900.....	37.
1901—	C. C. MORRIS	1904.....	21.89
1902—	C. C. MORRIS	1904.....	35.29
1903—	C. C. MORRIS	1904.....	50.56
1904—	W. P. BONBRIGHT	1904.....	31.29
1905—	R. L. PEARSON	1905.....	37.
1906—	A. T. LOWRY	1905.....	25.8
1907—	A. W. HUTTON	1910.....	31.6
1908—	A. W. HUTTON	1910.....	19.5
1909—	H. A. FURNESS	1910.....	47.4
1910—	H. A. FURNESS	1910.....	66.

Congdon Prize Ball

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Average</i>
1877—	J. M. W. THOMAS	'78	1.11
1878—	E. T. COMFORT	'78	6.47
1879—	W. C. LOWRY	'79	5.81
1880—	B. V. THOMAS	'83	5.78
1881—	W. L. BAILY	'83	5.31
1882—	A. C. CRAIG	'84	4.30
1883—	W. L. BAILY	'83	8.00
1885—	W. F. HILLES	'85	4.50
1886—	A. C. GARRETT	'87	8.25
1887—	J. W. SHARP, JR.	'88	7.86
1888—	H. P. BAILY	'90	5.47
1889—	H. P. BAILY	'90	5.86
1890—	H. P. BAILY	'90	6.50
1891—	D. H. BLAIR	'91	17.50
1892—	JOHN ROBERTS	'93	7.33
1893—	JOHN ROBERTS	'93	7.90
1894—	A. P. MORRIS	'95	5.97
1895—	A. P. MORRIS	'95	6.46
1896—	J. A. LESTER	'96	6.19
1897—	R. S. WENDELL	1900	8.25
1898—	L. W. DEMOTTE	1901	5.22
1899—	W. S. HINCHMAN	1900	9.40
1900—	L. W. DEMOTTE	1901	6.00
1901—	L. W. DEMOTTE	1901	8.13
1902—	N. A. SCOTT	1902	10.92
1903—	H. PLEASANTS, JR.	1906	7.49
1904—	F. D. GODLEY	1907	4.83
1905—	H. PLEASANTS, JR.	1906	7.47
1906—	F. D. GODLEY	1907	8.47
1907—	J. B. CLEMENT, JR.	1908	8.2
1908—	J. C. THOMAS	1908	7.36
1909—	H. HOWSON	1912	8.56
1910—	L. R. THOMAS	1913	



INTERIOR OF THE GYMNASIUM ON JUNIOR DAY.

Haines Prize Fielding Belt

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Year</i>	<i>Name</i>	<i>Class</i>
1876—	C. S. CROSMAN	'78	1894—	F. P. RISTINE	'94
1877—	A. L. BAILY	'78	1895—	J. H. SCATTERGOOD. .	'96
1878—	J. E. SHEPPARD	'79	1896—	A. G. SCATTERGOOD. .	'98
1879—	A. P. CORBITT	'80	1897—	A. G. SCATTERGOOD. .	'98
1880—	W. F. PRICE	'81	1898—	A. G. SCATTERGOOD. .	'98
1881—	B. V. THOMAS	'83	1899—	W. S. HINCHMAN. . .	1900
1882—	S. B. SHOEMAKER. . .	'83	1900—	W. V. DENNIS.	1902
1883—	W. L. BAILY	'83	1901—	C. C. MORRIS.	1904
1884—	W. S. HILLES	'85	1902—	A. C. WOOD, JR. . . .	1902
1885—	W. F. PRICE	'81	1903—	J. B. DRINKER,	1903
1886—	J. W. SHARP, JR. . . .	'88	1904—	H. H. MORRIS.	1904
1887—	H. P. BAILY	'90	1905—	A. T. LOWRY	1906
1888—	C. H. BURR, JR. . . .	'89	1906—	H. W. DOUGHTEN, JR.	1906
1889—	J. S. STOKES	'86	1907—	J. P. MAGILL	1907
1890—	J. W. MUIR	'90	1908—	E. A. EDWARDS. . . .	1908
1891—	G. THOMAS, 3D	'91	1909—	H. A. FURNESS. . . .	1910
1892—	S. W. MORRIS	'94	1910—	H. A. FURNESS. . . .	1910
1893—	W. W. SUPPLEE. . . .	'95			

Intercollegiate Cricket Match

Haverford—Cornell

At Haverford, May 20, 1911

Haverford

Taylor, b. Grant	0
L. V. H. Thomas, b. Passmore	30
Howson, run out	25
Seckel, b. Passmore	42
Roberts, b. Passmore	5
H. M. Thomas, c. Sommerfield, b. Passmore	1
Garrigues, run out	13
Crosman, c. Passmore	4
Hartshorne, l. b. w. Grant	5
Ritts, b. Passmore	0
Downing, not out	0
Extras	9
Total	134

Cornell—First Inning

Joachim, c. Howson, b. Howson	0
Eastwood, c. Hartshorne, b. Howson	5
Sommerfield, c. Ritts, b. Howson	0
Passmore, c. Thomas, b. Garrigues	0
Davis, b. Howson	0
Grant, c. Crosman, b. Howson	8
Towers, st. Taylor, b. Garrigues	4
Narthling, b. Hartshorne	5
Carmel, b. Garrigues	0
Allan, not out	0
Atkins, b. Hartshorne	0
Extras	7
Total	29

Cornell—Second Inning

Jochin, c. Howson, b. Downing	2
Sommerfield, b. Hartshorne	2
Eastwood, b. Hartshorne	0
Passmore, c. L. Thomas, b. Downing	1
Davis, b. Hartshorne	5
Grant, c. Ritts, b. Downing	0
Towers, run out	2
Narthling, b. Seckel	2
Allen, not out	11
Atkinson, b. Seckel	4
Carmel, b. Seckel	0
—	
Total	29

Bowling Analysis

Haverford

	R.	B.	M.	W.
Howson	4	54	7	5
Garrigues	15	60	4	3
Hartshorne	12	30	1	5
Seckel	6	8	0	3
L. Thomas	0	6	1	0
Downing	15	24	0	3

Cornell

Passmore	59	93	1	6
Grant	66	96	0	2

Haverford—Pennsylvania

At Merion C. C., May 25, 1911

Pennsylvania

Wood, b. Howson	7
Winter, c. Ritts, b. Hartshorne	23
Jordan, b. Howson	1
Harned, c. Garrigues, b. Howson	2
Watson, c. Thomas, b. Hartshorne	31
Keenan, c. Hartshorne, b. Hartshorne	85
Hunter, b. Hartshorne	25
Ruse, b. Hartshorne	13
Graham, c. Thomas, b. Hartshorne	8
Wiedersheim, c. Seckel, b. Garrigues	16
Clement, not out	16
Extras	22
<hr/>	
Total	249

Haverford

Baily, c. Graham, b. Clement	22
L. V. H. Thomas, c. Ruse, b. Clement	19
Taylor, c. Winter, b. Watson	14
Howson, c. Graham, b. Watson	7
Seckel, c. Ruse, b. Watson	0
H. Thomas, run out	1
Roberts, not out	9
Garrigues, c. Keenan, b. Watson	5
Downing, c. Keenan, b. Watson	3
Hartshorne, c. Wood, b. Watson	13
Ritts, c. Winter, b. Watson	1
Extras	5
<hr/>	
Total	99

Bowling Analysis**Haverford**

	B.	M.	W.	R.
Howson	138	3	3	88
Hartshorne	174	6	6	91
Baily	18	0	0	14
Garrigues	68	2	1	35

Pennsylvania

Clement	84	1	2	5
Watson	80	3	7	50

Miscellaneous Games

December 3—1914, 18; Westtown, 25, at Westtown (basket ball).

March 1—Bowling championship won by C. S. Crosman, '13, 564 (three strings).

March 7. Interclass Swimming Meet.

Fancy Diving.

Waples, '14; Thomas, '12; Crosman, '13.

Twenty Lengths.

Thomas, '12; Wadsworth, '11; Wallerstein, '12.

Underwater.

Smiley (7 lengths); Crosman, '13; Lowry, '12.

Three Lengths.

Thomas, '12; Wadsworth, '11; Waples, '14.

First Place—Thomas, '12, 25 points.

Winner of Relay Races—Freshmen, 1914.

March 20. Indoor Track Meet

High Jump—Jones, '14.

Three Standing Jumps—Shipley, '12.

Wrestling—Brownlee, '12.

Boxing (heavy)—Taylor, '13.

Boxing (middle)—Durgin, '12.

Boxing (light)—Wallerstein, '12.

Winner of Relay Races—Juniors, 1912.

RESULTS BY CLASSES.

1912	32	1913	8
1914	11	1911	1

- March 23—1911, 20; 1913, 5 (basket-ball).
March 23—1912, 17; 1914, 11 (basket-ball).
April 27—Pick Ups, 4; Haverford School, 4 (baseball).
May 1—Table E, 14; Table O, 4 (baseball).
May 5—1911, 7; Faculty, 6 (baseball).
May 12—Faculty, 99; 1911, 81 (cricket).
May 15—1914, 110; 1913, 62 (cricket).
May 17—1912, 58; 1913, 39 (cricket).
May 18—Varsity, 137; Next Fifteen, 85 (cricket).
May 19—North Barclay, 7; All Others, 6 (baseball).
May 22—1914, 104 (6 wickets); Penn Charter, 40.
May 23—1914, 41 (7 wickets); North East M. T. S., 117.
May 24—Westtown, 12; Nogles 5 (baseball).
June 'Varsity, all Interscholastic.

The Athletic Cabinet

Purpose.

This group is selected from representative men in College, partly by appointment and partly by election and is organized (a) for conference upon important college athletic affairs, (b) for taking the initiative in important college innovations, and (c) for bringing into harmonious co-operation the various college athletic organizations. It shall act as college host to visiting alumni whenever opportunity presents, and shall investigate school conditions and as far as consistent, influence school boys toward Haverford. It shall in no way influence college politics nor administer athletic finances, and shall act in advisory rather than executive capacity.

Membership.

Its membership shall consist of ten members, five of whom shall be the captains of the Football, Gymnasium, Soccer, Athletic and Cricket teams respectively. Three members shall be elected each year by ballot of the retiring cabinet and the two remaining members named by the chairman (ex-officio), Dr. Babbitt. Election shall be regardless of class or other College membership.

The membership for 1911-1912 is as follows:

D. C. Murray,	W. C. Longstreth,
L. M. Smith,	L. R. Thomas,
L. C. Ritts,	E. Wallerstein, Jr.,
R. E. Miller,	D. P. Falconer.

(Two to be elected later.)

Meetings.

Meetings shall be held upon the first Tuesday evening of each month upon the invitation of the ex-officio host, although

special date may be changed upon special occasion, when conflicting with other College appointments.

Special sessions may be arranged as need requires.

Officers.

Officers shall consist of a President and Secretary elected at the first meeting of the year. These two, with the Chairman ex-officio, shall constitute the Executive Committee.

Special Functions.

The Cabinet shall direct the various interscholastic meetings at the College when so desired, shall always be ready to assist at alumni gatherings at the College, and shall act as host at an annual gathering of "Cabinet Alumni," held during May.

HAVERFORD COLLEGE BULLETIN

VOL. IX

EIGHTH MONTH, 1911

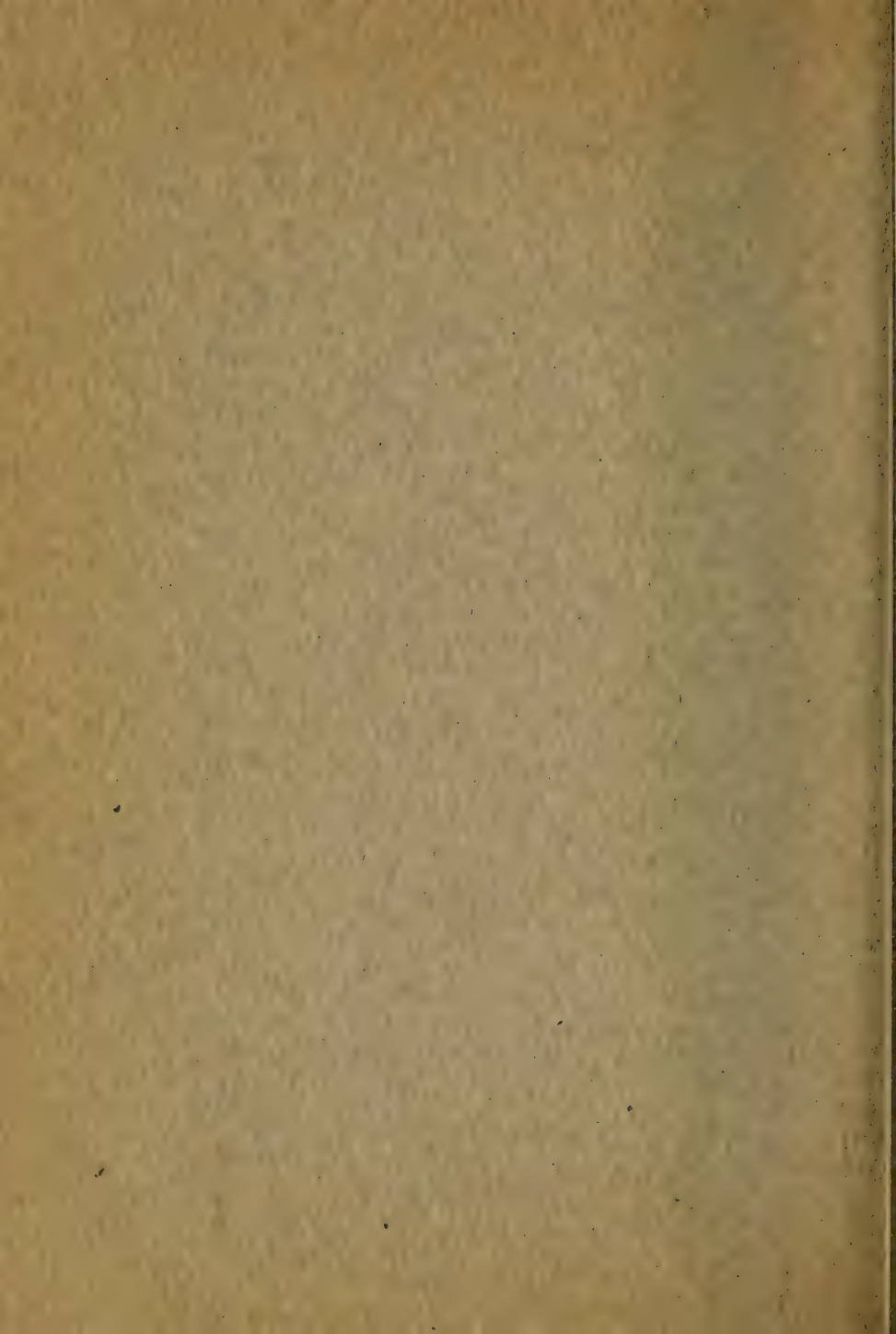
No. ⁷~~5~~

Alumni Number



Issued Quarterly by Haverford College,
Haverford, Pa.

Entered December 10th, 1902, at Haverford, Pa.,
as Second-Class Matter under Act of Congress of July 16th, 1894



Proceedings

of the

Fifty-fifth Annual Meeting

of the

Alumni Association

of

Haverford College

Held in the Haverford Union, June 16, 1911

THE Fifty-fifth Annual Meeting of the Alumni Association of Haverford College was held on Friday, June 16, 1911, at 6.30 p. m., in the Haverford Union, with President Edward Bettie, Jr., '61, in the chair.

The roll call and the reading of the minutes were dispensed with, as usual, the minutes having been already printed and distributed among the members.

The following report of the Executive Committee was read by the Secretary, and on motion duly seconded and carried was accepted and ordered filed:

REPORT OF EXECUTIVE COMMITTEE

To the Alumni Association of Haverford College:

Your Executive Committee respectfully reports:

The twenty-fourth annual dinner of the Association was held at the Bellevue-Stratford Hotel, on Saturday evening, January 28, 1911. About 175 persons attended. The speakers introduced by the President of the Association were President Sharpless, Dr. John Duncan Spaeth, of Princeton University, and Dr. Robert Ellis Thompson, Principal of Central High School of Philadelphia. The addresses of these gentlemen were much more than merely entertaining, and the success of the evening was also added to by the songs arranged for by the Committee in charge. To that Committee, as well as to all who gave their services at the dinner, are due the hearty thanks of the Association. The amount realized from the charge of \$3.50 per plate was insuffi-

cient, as usual, to meet expenses and a deficit of \$79.72 was paid out of the general funds of the Association.

In connection with the foregoing it will be noted that the Committee in arranging for the dinner made two changes. It was in the first place determined to try holding the dinner on an earlier date than usual and on a Saturday instead of a Friday evening, and in the second place the Committee thought it advisable to limit the number of speeches in addition to that of President Sharpless to two. How far these changes affected the success of the occasion it is, of course, impossible to say, but for the future your Committee recommends that the Association determine upon a definite date on which the dinners shall be held annually, as for example, the first Friday or Saturday in February of each year. If it became known in advance that the dinner would be held annually on some such date the necessary rooms could be secured, and members would be less likely to make conflicting engagements.

The arrangements for Alumni Day were, as usual, placed in the hands of a special committee and of the Secretary.

Reports from all committees have been requested from the respective Chairmen for presentation at this year's Annual Meeting.

The deaths of the following matriculates of the College have been reported to the Secretary during the past year:

MEMBERS OF THE ALUMNI ASSOCIATION

Richard Wood, '51.....	September 30, 1910
Dr. A. Marshall Elliott, '66.....	November 9, 1910
Guy R. Johnson, '86.....	June 24, 1910

NON-MEMBERS

D. S. Burson, '35.....	April 3, 1911
H. D. Gummere, '45.....	October 18, 1910
J. C. Corbit, '53.....	1907
E. M. Lamb, '56.....	January 25, 1911
E. Maddock, '60.....	December 26, 1910
W. H. Willetts, '62.....	1903
C. C. Cornalt, '86.	
F. L. Trotter, '86.....	May 26, 1911

Respectfully submitted,

EDWARD W. EVANS, *Secretary*.

PHILADELPHIA, June 16, 1911.

The report of the Committee to Nominate Members to the Association was presented by its Chairman, Samuel Mason, nominating Hugh Smiley, of the Class of 1908. It was moved, seconded and carried that the Secretary be instructed to cast an affirmative ballot for the election of Mr. Smiley to membership in the Association, whereupon the Secretary reported and the President announced that such a ballot had been cast.

The following report was read by the Treasurer,
Alfred G. Scattergood, and accepted:

REPORT OF TREASURER

*A. G. Scattergood, Treasurer, in Account with Alumni Association
of Haverford College, June 8, 1910, to June 14, 1911.*

DR.

To balance received from former Treasurer, June 23, 1910	\$255.14
To <i>Annual Subscriptions</i> :	
1 for 1906.....	\$ 5.00
1 for 1907.....	5.00
2 for 1908.....	7.00
5 for 1909.....	15.00
139 for 1910.....	528.50
14 for 1911.....	57.00
	———— 617.50
To 19 Donations for Alumni Day, 1910.....	46.00
Contributions for music, Alumni Day, 1910..	79.25
23 Donations for Alumni Day, 1911.....	85.50
Interest on Deposits	3.90
	———— <u>\$1,087.29</u>

CR.

By <i>Alumni Day, 1910</i> :	
Printing, postage, etc.	\$ 52.70
Supper	465.00
Campus Club lunch in afternoon.....	45.00
Band	94.75
	———— \$657.45
By <i>Alumni Day, 1911</i> :	
Printing, postage, etc.	55.08
Printing and Distributing 1,150 copies of Alumni Number of College Bulletin.....	48.50
Deficit on Midwinter Dinner	79.72
Books for Prize for Oratory, 1910.....	45.85

Medal for Prize for Oratory, 1911.....	\$4.00
Lettering Tablets for Cricket Pavilion.....	8.00
Sundry postage, stationery, telephoning, stenography, etc.	19.04
Balance on hand June 14, 1911.....	169.05
	<hr/> \$1,087.29

Examined and found correct:

JOHN M. OKIE,
JOHN W. CADBURY, JR., } *Auditors.*

PHILADELPHIA, June 15, 1911.

The following report of the Committee to Nominate Officers and an Executive Committee was presented by the Chairman, W. Nelson L. West:

REPORT OF COMMITTEE TO NOMINATE OFFICERS AND AN EXECUTIVE COMMITTEE

HAVERFORD COLLEGE ALUMNI ASSOCIATION

OFFICERS AND COMMITTEES NOMINATED BY THE COMMITTEE TO BE ACTED UPON AT THE ANNUAL MEETING, JUNE 16, 1911.

President—Alfred Cope Garrett, '87.

Vice-Presidents—John Thompson Morris, '67.

Dr. Francis Barton Gummere, '72.

Alfred Percival Smith, '84.

Executive Committee—William Paul Morris, '86.

Joseph Webster Sharp, Jr., '88.

William Percy Simpson, '90.

Parker Shortridge Williams, '94.

Walter Coggeshall Janney, '98.

Carlino Linn Seiler, '02.

Howard G. Taylor, Jr., '11.

Treasurer—Alfred Garrett Scattergood, '98.

Secretary—Edward Wyatt Evans, '02.

Committee: HORACE E. SMITH, '86,
THOMAS EVANS, '89,
HENRY P. BAILY, '90,
L. HOLLINGSWORTH WOOD, '96,
RICHARD D. WOOD, '98,
DR. ARTHUR H. HOPKINS, '05,
W. NELSON L. WEST, '92,

Chairman.

On motion, duly seconded and carried, it was resolved that the nominations be closed and that the Secretary be instructed to cast an affirmative ballot for the gentlemen nominated for the respective offices, whereupon the Secretary reported and the President announced that such a ballot had been cast.

The following report of the Athletic Committee was read by the Chairman, Joseph W. Sharp, Jr., and accepted:

REPORT OF ATHLETIC COMMITTEE

The cricket played at the College this year showed improvement, due largely to last summer's tour in England.

The trip was enjoyed by the team, and while not successful in winning many matches, largely owing to soft wickets, made a good impression everywhere.

We owe a vote of thanks to Cope of '69 and Hinchman of 1900, for so ably arranging and conducting the English tour.

The spring series of matches with the local clubs yielded us more victories than for many seasons, all the games being in our favor, except the opening game with Frankford, lost by a narrow margin. The University of Pennsylvania, with a strong side, defeated us and we won easily from Cornell.

In football there seems to be continued undergraduate interest, and considering our small numbers, we again made a very wonderful showing against heavier teams coming from larger institutions.

The team was defeated by Ursinus, Johns Hopkins and Trinity; won from Temple and Lehigh, and tied with Delaware, Rutgers and Franklin and Marshall.

A very loyal unmatriculated Haverfordian, Jack Guiney, will next year act as Field Coach and Thorne of 1904 as Advisory Coach.

In soccer, the College won the intercollegiate championship, and three members of the team were given places on the All-American Collegiate team. No more than two were chosen from any other college.

Probably one-half of all the students play soccer, and it is very gratifying that Haverford should take first rank with the largest colleges. Harvard, Yale, Cornell, Columbia, University of Pennsylvania and Haverford compose the League.

The track team, with no particular "stars," by hard and consistent work, made a really good record. They lost to Lehigh; overwhelmed Franklin and Marshall, and defeated New York University.

The gymnasium organization held the usual number of interesting exhibitions and met Rutgers, Pennsylvania and Lehigh, defeating Lehigh and losing the other two.

Reviewing the College athletic activities during 1910-1911, your Committee wish to record their belief that this has been an exceptionally satisfactory year, and believe it has been due to the character of the students; their energy, their unselfishness, their loyalty have been most praiseworthy, and they have their reward, not only in the victories won, but the whole student body has been invigorated by the physical exercise so generally indulged in, and even more by living in an atmosphere surcharged with the Haverford spirit of sportsmanship.

At a recent meeting (a dinner at the College), your Committee heard reports from the captains and managers of the various athletic branches, and were not only pleased with the reports but much impressed with the men themselves and their ability to talk intelligently and technically.

The remarks made by President Sharpless and Dr. Babbitt at this meeting, convinced your Committee that Haverford has a wise and well-defined Athletic Policy;—a Policy that makes for individual effort and improvement;—for the most part, and as far as possible, removed from the tainted prodding of the Professional Coach;—a Policy whereby a self-governing student body guided by the management of the College and by the aid and sympathy of the Alumni, is garnering pleasure and health for itself, and fame and honor for its Alma Mater.

President Sharpless reports all sanitary conditions in the College to be in excellent shape and he also says this has been a most satisfactory year in all forms of College activities. This could not have been so without the "healthy body."

The conviction grows upon us, that the College Man-

agement must recognize, even more than it has in the past, its responsibilities in this direction and appreciate that health and attainments are only possible by a proper indulgence in athletic sports; and that the fee for tuition or the scholarship held, entitles the student to physical health and strength, and so if more athletic fields are needed, let the College so dedicate from its broad acres and properly equip and maintain our necessary and important Athletic Department.

On behalf of the Athletic Committee,

JOSEPH W. SHARP, JR., *Chairman.*

June 16, 1911.

The following report of the Committee on the Alumni Oratorical Prize was read by the Secretary:

REPORT OF COMMITTEE ON ALUMNI ORATORICAL PRIZE

To the Alumni Association of Haverford College:

The Committee on the Alumni Oratorical Prize respectfully reports:

The annual contest for the Alumni Prize in oratory was held in the Auditorium of the Haverford Union on May 17, 1911, following the contest in extemporaneous speaking for the Everett Medal.

The following members of the Committee were present: Messrs. Alfred Percival Smith, Edward Y. Hartshorne, Walter Brinton, and the Chairman.

Mr. Rowland Evans, Rev. George Calvert Carter and Mr. George R. Packard acted as judges.

The contestants and the subjects of their orations were as follows:

Richard Junius Mendenhall Hobbs,	
	The American Problem
Lucien Rogers Shero.....	The Reign of Justice
Joshua Alban Cope.....	The Perils of Democracy
Alan Sedgwick Young.....	The Man of One Idea
Mark Balderston....	John Ruskin as a Social Reformer
Ebenezer Hall Spencer....	The College Man in Business

Mr. Carter announced the decision of the judges awarding the prize to Richard Junius Mendenhall Hobbs, with "Honorable Mention" to Ebenezer Hall Spencer.

The contest was of an especially high standard. All of the contestants were deserving of praise and reflected great credit on Dr. Hancock's past training, and also on the work of Mr. Maxfield, who in the absence of Dr. Hancock during the past college year has been in charge of the Department of Composition and Oratory.

The Auditorium of the Haverford Union was found to be quite sufficient in size for the audience present.

On behalf of the Committee,

PARKER S. WILLIAMS, *Chairman.*

May 23, 1911.

The report was accepted and a medal presented by the President on behalf of the Association to the winner of the contest, Richard J. M. Hobbs.

The following report of the Committee on the Hall of Fame in the Cricket Pavilion was read by the Chairman, Alfred G. Scattergood:

**REPORT OF COMMITTEE ON HALL OF FAME IN
CRICKET PAVILION**

PHILADELPHIA, June 14, 1911.

To the Alumni Association of Haverford College:

The Committee on Hall of Fame in Cricket Pavilion, appointed at your last annual meeting, reports that it has had prepared and placed in the pavilion during the past year:

Tablet for the XI of 1910 and Tablet for the 1910 English Team.

The cost of these was \$8.00, leaving unspent a balance of \$2.00 of the amount appropriated a year ago.

Your Committee has been unable to obtain a picture of the captain of that XI, and recommends that this be made a part of the duties of next year's Committee. It is further recommended that the above-mentioned unspent balance of \$2.00, together with the usual amount of \$5.00, be appropriated for the use of that Committee.

On behalf of the Committee,

A. G. SCATTERGOOD, *Chairman.*

The report was accepted and the recommendations contained therein approved.

The following report of the Committee on the Collection of Photographs of Senior Classes was read by the Chairman, Arthur N. Leeds :

REPORT OF THE COMMITTEE ON THE COLLECTION OF PHOTOGRAPHS OF SENIOR CLASSES

Your Committee have to report that they have approximately completed the collection they were appointed to make.

We have gotten together a series of pictures back to and including the year 1862. Prior to this date, we could not find that class pictures had been taken. From 1862 onwards the collection is practically complete with the exception of three classes :—1863, which possibly may still be obtainable; 1866, of which there were only two members, one of whom is not living and the address of the other is unknown; and 1886, which we still hope to get.

Photographs of the Senior Classes from 1897 onwards were already at the College on the walls of the room above the new dining-room at the time of our appointment, and, we learned from graduates of 30 and 40 years ago that at that time a considerable number of classes had had group pictures taken, framed and left to the College, where, at one time, they hung on the Library walls. These, however, all seem to have been lost or destroyed. Diligent inquiry of everyone, who would be likely to know about them, failed to elicit any clue as to their whereabouts. As there were no collections here to draw on, we had to undertake a rather time consuming inquiry among the alumni of the different classes.

We are indebted to the following gentlemen for the gift of pictures:

The late Dr. Jos. H. Wills, of '68; J. E. Comfort, of '73; Lowry, of '79; Jones, of '80; Baily, of '83; Vaux, of '84; Morris, of '85; England, of '88; Kirkbride, of '89; Baily, of '90; Thomas, of '91; Cadbury, of '92; Chase, of '94; Engle, of '95, and Alsop, of '96; and to a number of others for the loan of photographs.

In carrying out our commission, we have found that it involved considerably more trouble and expense than may have been anticipated. Very few of the negatives were in existence, and, as the majority of the pictures were loaned and not given, they had to be photographed and new prints made. Some had to be enlarged, others reduced, and, as many of the classes had only individual photographs of their members instead of group pictures, it became necessary to have such sets put in a frame and rephotographed as a group.

We were without instructions as to how the collection was to be displayed. As it would take up a large amount of room if placed on any wall, would have to be hung at about a uniform height, and would not have decorative value, we concluded that it would probably be best preserved and most easily seen if mounted in a book.

The total cost will be about \$175.00.

We regret that the album is not here to-day for your inspection, but there is still two or three weeks' more work to be done on it.

ARTHUR N. LEEDS, *Chairman*.

It was moved, seconded and carried that the report be accepted and the Committee continued and the President

expressed the Association's appreciation of the Committee's work. Dr. William W. Comfort urged that the photographs be displayed upon the walls of the College buildings, but the matter was left to the Committee.

Dr. A. G. H. Spiers, as Treasurer of the Haverford Union, addressed the meeting, urging that Alumni should take increased interest in the Union, and that Alumni members should make more use of the building with a sense of ownership. He expressed the belief that the Union would never fulfil its true purpose unless used by Alumni.

The question of fixing a date for the Annual Mid-Winter Dinner was discussed. On motion, duly seconded and carried, it was resolved that the matter be left to the Executive Committee with power to act.

Mr. William M. Coates called to the attention of the meeting that this was the date of the fiftieth anniversary of the graduation of the President of the Association, Edward Bettle, Jr., and moved that the appreciation of the Association be expressed and that the College be congratulated on the occasion. The motion was seconded by several members and carried by a unanimous standing vote.

The meeting then adjourned.

EDWARD W. EVANS, *Secretary*.

COMMITTEES FOR THE YEAR 1911-12

Appointed by the Incoming President Subsequent to the
Annual Meeting

COMMITTEE TO NOMINATE MEMBERS TO THE ASSOCIATION.

Richard T. Cadbury, '72	Oscar M. Chase, '94
<i>Chairman</i>	Joseph H. Haines, '98
Walter S. Price, '81	Wm. M. C. Kimber, '04
Hugh Leslie, '87	Cecil K. Drinker, '08
Ebenezer H. Spencer, '11	

COMMITTEE TO NOMINATE OFFICERS AND AN EXECUTIVE
COMMITTEE.

Morris E. Leeds, '88	Arthur V. Morton, '93
<i>Chairman</i>	Alfred C. Maule, '99
Charles W. Bailey, '85	Henry S. Drinker, '00
Stanley R. Yarnall, '92	Richard M. Gummere, '02

COMMITTEE ON ALUMNI ORATORICAL PRIZE.

Parker S. Williams, '94	Edward Y. Hartshorne, '81
<i>Chairman</i>	Alfred Percival Smith, '84
Walter Brinton, '81	Harold Evans, '07

COMMITTEE ON ATHLETICS.

Joseph W. Sharp, Jr., '88	Alfred M. Collins, '97
<i>Chairman</i>	Dr. Francis B. Jacobs, '97
Henry Cope, '69	Alfred C. Maule, '99
W. C. Lowry, '71	Dr. Frederic C. Sharpless, '00
Dr. Thomas F. Branson, '89	Henry S. Drinker, '00
Charles J. Rhoads, '93	C. Christopher Morris, '04
J. Henry Scattergood, '96	H. Norman Thorn, '04
Dr. James A. Babbitt	

COMMITTEE TO AUDIT TREASURER'S REPORT.

John M. Okie, '93	John W. Cadbury, Jr., '01
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COMMITTEE ON HALL OF FAME IN CRICKET PAVILION.

Alfred G. Scattergood, '98	Harold Evans, '07
<i>Chairman</i>	William H. Roberts, Jr., '12



Haverford College Bulletin

VOL. X

TENTH MONTH, 1911

No. I

Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10, 1902, at Haverford, Pa.,
as Second Class Matter under Act of Congress of July 16, 1894

The college year 1911-12 opened September 27th, with an enrollment of 163. There are 46 Freshmen and 10 new admissions to advanced classes. The Freshmen have all passed the test of examinations and are quite up to the average in intellectual quality. Seven new men enter the Senior class, all being college graduates, one the Junior, and two the Sophomore class.

The Faculty is seriously contemplating a change in entrance requirements which will reduce the number of examinations. In general terms the formal examinations would be confined to Advanced Latin (or a modern language for a science student), Advanced Mathematics, and English. The other subjects, generally the more elementary, will be judged by the school records.

The hall for chemistry is completed and largely equipped. The total cost was nearly \$60,000. It is a fine building for the purpose, thanks to the generosity of our friends, the skill of the architects, and the continuous detailed care of Dr. Lyman B. Hall. It is to receive

a formal "opening" at an early date and we hope that all the donors will be present to receive the thanks of the college.

The construction of the new Infirmary is to begin immediately. The delay through the summer has been caused by the necessity for very careful study of the plans and arrangements of the best efforts of this sort elsewhere, adapted to meet our requirements. A satisfactory plan has now been evolved, and the contract, requiring an expenditure of \$25,000 or more, on the building, has been signed. It is not likely that it will be open for use before the fall of 1912.

It will be remembered that the building, the gift of John T. Morris, '67, was conditioned upon a subscription of \$15,000 for endowment. This has all been promised, and partly paid in. The other subscriptions may be forwarded to the treasurer of the college, A. S. Wing, 409 Chestnut Street, as soon as convenient to the donors.

The cost and character of the building is far in excess of the highest expectations of the college at the time the movement was started by Dr. Babbitt and the students last spring. Both externally and internally it will be all that could be desired and a memorial for which many generations of Haverfordians will be grateful.

One friend, Frederic H. Strawbridge, '87, has by a large gift enabled us to put the swimming pool in good order. It has been somewhat leaky and it has been difficult to keep it perfectly clean. During the summer the sides have been built up with glazed brick, and the floor, both

of the pool and the room, has been covered with tile. Some delay has resulted from the failure to receive certain special tiles for the overflow. A new diving board is also provided. We ask our old students to try the new pool whenever convenient.

The graduates of a score of years ago will remember that the football field and track were largely the result of the energy and labors of Ernest F. Walton, '90. His lamented death a few years later as the result of a railroad accident was followed by a request from his class, very willingly acceded to by the college, that the field should bear his name. His widow has now offered to build a drinking fountain on or near the field, with a suitable inscription. The Board has gratefully accepted this gift and the erection will shortly proceed.

There remains one more serious lack in the equipment of the field. Our old board grand-stand is neither sightly nor will it long be safe. The modern structures of this sort are made of reinforced concrete and are both ornamental and permanent. Perhaps some kindly disposed alumnus or class will take this matter into consideration.

There are very few faculty changes. Drs. Hancock and Reid are absent for the year abroad. Dr. R. M. Gummere, with some assistance, is to take charge of Dr. Hancock's work, and John E. Rowe, Ph.D., last year instructor in Mathematics in Goucher College, Baltimore, will have Dr. Reid's classes. Henry J. Cadbury, '03, is this year to have a field of his own in Biblical Literature, which subject will now be elective above the Sophomore class.

The following figures from the treasurer's report for 1910-11 may give some idea of the extent of the financial operations of the college. To teach the students, it cost \$54,000; for provisions \$17,000, and for wages \$13,000. The total expenses of the college were \$115,588.16. This, with the exception of about \$300, was met by the receipts of the college from all sources. The endowment increased during the year by \$103,000, about half of which came from the sale of land in West Philadelphia; \$20,000 was a donation to the John Farnum Brown Fund; \$10,000, a legacy from Justus C. Strawbridge; and \$5,000 came from the widow of Dr. John W. Pinkham, '60. The balance was from various sources in smaller amounts. The cash receipts from board and tuition, including scholarship funds, amounted to about \$60,000. The farm, instead of a profit as usual, showed a deficiency of about \$2,000, due to permanent improvements. With the new farm buildings, a selected and tested herd of cows, and good arrangements for the care of milk, this branch of our industry is in excellent condition. Various deficiencies extending back through many years, largely due to permanent additions to buildings and partly to deficiencies in yearly accounts, have accumulated a college debt of about \$100,000, which should be subtracted from the productive endowment. This endowment is now \$1,631,466.45. The donations to the college for the year from about two hundred and fifty contributors amounted to \$54,509.69.

This BULLETIN is sent free to all members of the Haverford Union and to others on the receipt of one dollar a year.

Haverford College Bulletin

Vol. X

Tenth Month, 1911

No. 2

Reports of the Board of Managers
President of the College and
Treasurer of the Corporation
1910-1911



Issued eight times a year by
Haverford College, Haverford, Pa.

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THE CORPORATION
OF
HAVERFORD COLLEGE

REPORTS OF
BOARD OF MANAGERS
PRESIDENT OF THE COLLEGE
TREASURER OF THE CORPORATION

PRESENTED AT THE ANNUAL MEETING

TENTH MONTH 10TH, 1911

THE JOHN C. WINSTON COMPANY
PHILADELPHIA

CORPORATION

President.

T. WISTAR BROWN.....235 Chestnut St., Philadelphia

Secretary.

J. STOGDELL STOKES.....Summerdale, Philadelphia

Treasurer.

ASA S. WING.....409 Chestnut St., Philadelphia

BOARD OF MANAGERS.

Term Expires 1912.

EDWARD BETTLE, JR.....514 Walnut St., Phila.

JAMES WOOD.....Mt. Kisco, N. Y.

ABRAM F. HUSTON.....Coatesville, Pa.

SAMUEL L. ALLEN.....1101 Market St., Phila.

THOMAS F. BRANSON.....Rosemont, Pa.

SETH K. GIFFORD.....Moses Brown School, Providence, R. I.

CHARLES J. RHOADS.....Girard Trust Co., Phila.

DANIEL SMILEY.....Mohonk Lake, N. Y.

Term Expires 1913.

JOHN B. GARRETT.....Rosemont, Pa.

HOWARD COMFORT.....529 Arch St., Phila.

FRANCIS STOKES.....Locust Ave., Germantown, Phila.

GEORGE VAUX, JR.....1606 Morris Building, Phila.

STEPHEN W. COLLINS.....61 Wall St., New York, N. Y.

FREDERIC H. STRAWBRIDGR.....801 Market St., Phila.

J. HENRY SCATTERGOOD.....648 Bourse Building, Phila.

JONATHAN M. STEERE.....Girard Trust Co., Phila.

Term Expires 1914.

BENJAMIN H. SHOEMAKER.....205 N. Fourth St., Phila.

WALTER WOOD.....400 Chestnut St., Phila.

WILLIAM H. HAINES.....1136 Ridge Ave., Phila.

FRANCIS A. WHITE.....1221 N. Calvert St., Baltimore, Md.

JOHN M. WHITALL.....410 Race St., Phila.

ISAAC SHARPLESS.....Haverford, Pa.

MORRIS E. LEEDS.....4901 Stenton Ave., Germantown, Phila.

EDWARD W. EVANS.....711 Arcade Building, Phila.

T. WISTAR BROWN, *President*
235 Chestnut St., Phila.

CHARLES J. RHOADS, *Secretary*,
Girard Trust Co., Phila.

STANDING COMMITTEES OF THE BOARD OF MANAGERS

Executive Committee.

HOWARD COMFORT	JAMES WOOD
JOHN B. GARRETT	GEORGE VAUX, JR.
EDWARD BETTLE, JR.	FREDERIC H. STRAWBRIDGE
ASA S. WING	JOHN M. WHITALL
CHARLES J. RHOADS	

Committee on Finance and Investments.

WILLIAM H. HAINES	J. HENRY SCATTERGOOD
FRANCIS A. WHITE	CHARLES J. RHOADS

Committee on Accounts.

FRANCIS STOKES	JONATHAN M. STEERE
J. STOGDELL STOKES	EDWARD W. EVANS

Library Committee.

HOWARD COMFORT	SETH K. GIFFORD
CHARLES J. RHOADS	WALTER WOOD
MORRIS E. LEEDS	

Committee on College Property and Farm.

SAMUEL L. ALLEN	ABRAM F. HUSTON
FRANCIS STOKES	FREDERIC H. STRAWBRIDGE
JOHN M. WHITALL	

The Chairman of the Board of Managers is *ex-officio* a member of all standing committees.

FACULTY

1911-1912

ISAAC SHARPLESS, Sc.D., LL.D., L.H.D.
President and Professor of Ethics.

ALLEN CLAPP THOMAS, A.M.
Librarian and Professor of History.

LYMAN BEECHER HALL, Ph.D.
John Farnum Professor of Chemistry.

FRANCIS BARTON GUMMERE, Ph.D., LL.D., Litt.D.
Professor of English Literature.

HENRY SHERRING PRATT, Ph.D.
David Scull Professor of Biology.

JAMES ADDISON BABBITT, A.M., M.D.
Professor of Hygiene and Physical Education.

RUFUS MATTHEW JONES, A.M., Litt.D.
Professor of Philosophy.

OSCAR MARSHALL CHASE, S.M.
Registrar and Instructor in Drawing.

ALBERT SIDNEY BOLLES, Ph.D., LL.D.
Lecturer on Commercial Law and Banking.

DON CARLOS BARRETT, Ph.D.
Professor of Economics.

*ALBERT ELMER HANCOCK, Ph.D.
Professor of English.

* Absent 1911-12.

*LEGH WILBER REID, PH.D.
Professor of Mathematics.

WILLIAM WILSON BAKER, PH.D.
Associate Professor of Greek.

FREDERIC PALMER, JR., A.M.
Dean and Associate Professor of Physics.

LEON HAWLEY RITTENHOUSE, M.E.
Associate Professor of Mechanics and Electricity.

RICHARD MOTT GUMMERE, PH.D.
Associate Professor of Latin.

*THOMAS KITE BROWN, JR., A.M.
Instructor in German.

ALEXANDER GUY HOLBORN SPIERS, PH.D.
Associate Professor of Romance Languages.

RAYNER WICKERSHAM KELSEY, PH.D.
Associate Professor of History.

CLARENCE ELNATHAN NORRIS, A.M.
Instructor in German.

ALBERT HARRIS WILSON, PH.D.
Associate Professor of Mathematics.

HENRY JOEL CADBURY, A.M.
Instructor in Biblical Literature.

ALFRED LORANUS ATWOOD, A.B.
Instructor in Physical Training.

* Absent 1911-12.

JOSEPH EUGENE ROWE, PH.D.
Instructor in Mathematics.

JOSEPH HAINES PRICE, A.B.
Instructor in English.

WILLIAM HENRY COLLINS, A.M.
Superintendent of Buildings and Grounds.

HELEN SHARPLESS
Assistant Librarian.

JOHN STEELE DOWNING, S.B.
Assistant in the Chemical Laboratory.

PEARLE FRANZ ROBUCK, S.B.
Assistant in the Physical Laboratory.

GARFIELD W. WEAVER
Assistant in the Engineering Laboratory.

ANNUAL REPORT OF THE BOARD OF MANAGERS FOR THE YEAR 1910-1911

To the Corporation of Haverford College:

A review of the past year presents little material for comment from your Board of Managers, since the work of the College has been conducted in a satisfactory manner.

We refer to the report of President Sharpless for an account of the changes in our Faculty, the improvements to the plant of the College by the completion of the new Chemical Laboratory, the proposed Infirmary and for all matters connected with the work of the College.

The Treasurer's Report for the year is presented herewith, duly audited. The financial statements show an outgo of \$1,565.43 in excess of the income for the year applicable thereto. Receipts in payment of old bills for account of previous years amounting to \$1,263.23, reduce the actual deficit so that the debt of the corporation has been increased only \$302.20 during the year. The debt now amounts to \$104,610.71.

Contributions for various objects have been received from about two hundred and fifty donors amounting to \$54,509.69, evidencing anew the continued interest and support of the Alumni and other friends of the College. Among these donations we would especially mention an addition of \$20,612.89 to the John Farnum Brown Memorial Fund and \$5,000 received from Cornelia F. Pinkham in memory of her husband, the late Dr. John W. Pinkham,

HAVERFORD COLLEGE.

of the Class of 1860. In addition to these donations the corporation is in receipt of a legacy of \$10,000 under the will of the late Justus C. Strawbridge.

By the death of Mary T. Jones in 1896, Haverford College became owner, under the will of Jacob P. Jones, of his homestead and 104.157 acres of land in the Thirty-fourth Ward of the City of Philadelphia. Since that time the College has sold 58.180 acres and 16.932 acres have been dedicated to the city for beds of streets. This leaves 29.045 acres still belonging to the College. During the past year the sum of \$53,512.45 has been received from sales of part of this tract of land. The value of this legacy to the College can hardly be overestimated. It has enabled the institution to maintain a standard that otherwise would have been impossible, and has encouraged others to give or continue their generous support.

Three members of your Board have died during the past year: Richard Wood, Jonathan Evans and Justus C. Strawbridge, all of whom faithfully served as Managers for many years and gave freely of their time and substance to the work of the College. The vacancies have been filled by the election of Jonathan M. Steere, '90, Edward W. Evans, '02, and Daniel Smiley, '78.

The Board desires to record its appreciation of the work of the Faculty and of all others connected with the institution.

By order of the Board.

T. WISTAR BROWN, *President.*

CHARLES J. RHOADS, *Secretary.*

PHILADELPHIA, PA., Tenth month 9th, 1911.

PRESIDENT'S REPORT

To the Board of Managers:

The President reports the register of attendance of students during the year 1910-11 as 150. For 1911-12 there are now entered 163, of whom 46 are Freshmen and 10 are new admissions to the advanced classes.

Certain changes occurring in the Faculty for the coming year result from the temporary absence of Drs. Hancock and Reid. Dr. R. M. Gummere, in addition to his Latin Courses, will, with the assistance of Joseph T. Price, of our last year's Senior class, take charge of the work of Dr. Hancock, and Joseph E. Rowe, Ph.D., of Johns Hopkins University, and for the past year Instructor in Mathematics in Groucher College, Baltimore, will have the classes of Dr. Reid. Henry J. Cadbury, A.M., has been appointed Instructor in Biblical Literature. This important subject has always been taught at Haverford, but the work has been distributed among several teachers, including the Professors of Philosophy and of Greek. It is hoped that concentration in the hands of a specialist will promote efficiency. Since his graduation from Haverford in 1903, Henry J. Cadbury has spent three years at Harvard

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in special study and is amply qualified by attainments and serious interest for the work.

Lectures

The following lectures from men outside of the Faculty have been given during the year:

Haverford Library Lectures:

"Letter Writing and Travel in the First Century," by Sir William Mitchell Ramsay, D.C.L., LL.D., Professor of Humanity in Aberdeen University.

10th mo. 25th, 1910.

"International Peace through International Justice," by Dr. Henry B. F. Macfarland, late Commissioner of the District of Columbia.

1st mo. 17th, 1911.

"Loyalty and Insight," Professor Josiah Royce, of Harvard University.

4th mo. 8th, 1911.

"Pillars of Monotheism," by Dr. G. A. Johnston Ross.

5th mo. 9th, 1911.

5th mo. 11th, 1911.

The Thomas Shipley Lecture on English Literature:

"Robert Burns in His Historical Relations," by Professor William A. Neilson, of Harvard University.

3d mo. 24th, 1911.

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Other Lectures:

"Flight" (The Development of the Art of Aviation from the Earliest Times to the Present Day), by George Atwell Richardson. Lecture delivered under the auspices of the Haverford College Aero Club.

10th mo. 13th, 1910.

"The Ethics of the Single Tax," by Frank W. Garrison. Lecture delivered under the auspices of the Civic Association.

3d mo. 27th, 1911.

Other Events:

Negro Song and Folklore, by Miss Lucine Finch.

2d mo. 10th, 1911.

Joint Recital under the auspices of the Music Study Club, by Howard F. Rattay (violin) and John S. Thompson (piano).

5th mo. 2d, 1911.

Meeting and Reception under the auspices of the Transatlantic Society of America.

5th mo. 27th, 1911.

Annual Contest of Oratory, between the Senior and Junior classes for the Alumni Prize.

Annual Contest in Extemporaneous Speaking, between the Sophomore and Freshman classes for the Everett Medal.

5th mo. 17th, 1911.

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The Twelfth Annual Meeting of the Friends' Educational Association. Addresses by Professor John Dewey, of Teachers' College, Columbia University, New York, "Co-operation of Home and School," and Professor George Herbert Palmer, of Harvard University, "The Three Stages in the Life of a Teacher."

5th mo. 20th, 1911.

Commencement Day. Commencement exercises in Roberts Hall, with address by William Wistar Comfort, A.B. (Haverford, 1894), Cornell University.

Informal Alumni program. Alumni business meeting

6th mo. 16th, 1911.

The Hall or Chemistry

The Hall for Chemistry is now completed and fairly well equipped. The total cost was about \$57,000.00. It is proposed at an early date to have a meeting at the College to be addressed by an eminent chemist, after which the building will be open for examination. We are greatly indebted for the completeness and efficiency of all the arrangements to the constant care and practical good judgment of Dr. Lyman B. Hall. He has ever kept in view the permanent need of the department rather than his own special desires. The building will afford ample accommodation for the best work for many years to come. To the many donors whose gifts have made this possible the thanks of the College should again be extended.

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In my last report, there was mentioned the lack of proper accommodations for students in ill-health. Late in the winter the matter received the attention of the student body. A movement organized by Dr. James A. Babbitt to raise money for the purpose, and carried out largely by the undergraduates, was entered upon with much energy and practical skill. One of our old students who was approached in this way, John T. Morris, '67, proposed that the \$15,000 to be raised should go to the endowment of the Infirmary and that he would erect the building in memory of his brother. The plans have been most carefully worked up during the summer and the construction is about to begin. The College will have within a year one of the most complete and satisfactory Infirmarys that could be devised. The endowment has been raised, \$10,000 of it in small contributions promised to the student solicitors and \$5,000 the donation of Cornelia F. Pinkham in memory of her husband, Dr. John W. Pinkham, '60, she having expressed a wish that it should be used for this purpose. The College is under great obligation to John T. Morris and the other donors for this practically essential improvement.

A Resident Nurse will be kept on hand, and medical attendance for slight matters will be free. A portion of the building will be isolated for contagious diseases.

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The Swimming Pool

The condition of the swimming pool in the gymnasium being unsatisfactory, during the summer it has been lined with enameled brick and the floor covered with tile. This makes the pool water tight, as well as clean and sanitary. This has been made possible by a gift from a member of your Board.

The Drinking Fountain

Blanche Wetherill Walton has expressed a wish to place on our Athletic Field a drinking fountain bearing an inscription that it was erected in memory of her husband, Ernest F. Walton, '90. The Field was originated largely through his efforts when a Senior in the College, and bears his name. The plans have been approved and the beautiful and useful memorial will shortly be erected on our grounds.

Library Needs and Figures

Attention should again be called to the pressing need for additional room for our growing Library of nearly 60,000 volumes. The shelves are now full and a stack-room connected with the present building is probably the best way to afford the desired facilities.

During the year ending Ninth month 30, 1911, there were added to the Library 2,058 volumes, of which 1,194 were bought, 459 were gifts from various persons, 55 were for the William H. Jenks' collection, 2 were exchanges for duplicates, 220 came from the United States Government "on deposit," and 128 were periodicals and pamphlets bound. The total number of bound volumes in the library on the above date was 57,578.

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During the year, 8,394 volumes were withdrawn for use outside the building. Of this number 4,401 were withdrawn by students, 2,508 by members of the Faculty and others connected with the College, 777 by residents on the College grounds and in the neighborhood, and 708 were withdrawn for use over night. All departments show a gratifying increase.

The Library, as usual, is under obligations to a number of friends for gifts.

The Faculty has had under serious con-
siderations the question of entrance examina-
tions. In recent years, in common with only
four other Arts Colleges for young men in the
country, Harvard, Yale, Columbia and Prince-
ton, Haverford has adhered to examinations for
all candidates for a degree who enter the
Freshman class. This has given us a high
grade of students and has saved us from certain
abuses which the certificate system of entrance
almost inevitably entails. It has also fright-
ened away or kept out a considerable number
of boys, some of whom might have made
desirable students. A more serious matter has
been the inconvenience to many schools result-
ing from the necessity to prepare for several
colleges with varying statements of requisites
for preparation in details. The Faculty has,
however, felt it undesirable to do anything
which would actually or in appearance reduce
the standard of preparation for Haverford work.
It has been suggested that a complete record

Entrance
Examina-
tions

HAVERFORD COLLEGE.

from the school of the character of the students' work and conduct supplemented by an examination on certain advanced subjects, would remove some of the difficulties and be equally effective. This matter is now under consideration and it is probable that some change will go into effect before another College year.

Salaries

The ever present question with us, which probably can not be emphasized too much, is how to secure funds which will enable us to procure and retain such Professors as we need.

As I have indicated in previous reports, something more than scholarship is necessary in our teachers. The moral and virile elements which go to make a man of power must enter into the qualities of the teacher who can largely influence youth in a small college where associations are somewhat intimate. Scholarship, the skill of the born and trained teacher, the instincts of the gentlemen, the confidence of the man of the world, the force and fairness of the leader of men, must all in some degree be possessed by the Professor who satisfies our demands.

As our standards have risen, the cost of such men has also risen. The expense of family maintenance has increased fifty per cent. in the past dozen years. It is not surprising that a recent report from Amherst shows that the members of her Faculty expend from \$300 to \$1,000 each, more than their salaries. This means either outside resources or debt. Yale

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has just been furnished by its Alumni with a fund yielding \$50,000 a year for increase of salaries, and all full Professors are to receive from \$4,000 to \$5,000.

President Hadley says: "There are a number of institutions which offer individual members of their professional staff, who can do exceptionally good service, salaries varying from \$6,000 to \$7,500." A Trustee of Cornell has recently stated: "We need to be able to offer salaries of at least \$10,000 a year for men who have proven their ability to command such salaries." Everywhere the trend is forward, and Haverford must move on with the others and ahead of most of them. A recent Carnegie report states: "The Professor in the vast majority of cases stays at the average salary of \$2,500, while his intellectual brother, in law, in medicine, and in scientific occupation, rises steadily in the large cities to ten, twenty, or thirty thousand dollars." Such figures are not necessary for the teacher. He will willingly work for less on account of compensations attaching to his profession. But he should at least have enough to maintain his family in comfort and to procure the tools of his profession in the shape of books, attendance on scientific meetings and travel, which are demanded by a progressive and scholarly man.

ISAAC SHARPLESS.

PUBLICATIONS OF THE FACULTY

1910-1911

BABBITT, JAMES A.—*Athletic Number*, Haverford College Bulletin, Vol. IX, No. 7, June, 1911, pp. 80.

Central Board on Officials, Bulletin No. VI, *Official List*; Bulletin No. VII, *Interpretations of the New Football Rules*. October, 1910.

BARRETT, DON C.—*Collateral Reading in the Elementary Course in Economics*. Chicago Conference on the Teaching of Economics, May, 1911.

Review of David Kinley's *The Independent Treasury of the United States and its Relation to the Banks of the Country*. (National Monetary Commission, Washington.) *The American Economic Review*, June, 1911.

GUMMERE, FRANCIS B.—*Democracy and Poetry* (The Harris Lectures for 1911 at Northwestern University). Houghton, Mifflin & Co., 1911, pp. 328.

New Edition of *Old English Ballads*. Ginn & Co.

New Edition of *Handbook of Poetics*. Ginn & Co.

GUMMERE, RICHARD M.—*Seneca the Philosopher in the Middle Ages and the Early Renaissance*. Proceedings of the American Philological Association, 1911, pp. 38.

Review of W. C. Summers' *Select Letters of Seneca*. *Classical Philology*, July, 1911.

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JONES, RUFUS M.—*Clement of Alexandria*. (A Volume of Selections.) Headly Bros., London, 1911, pp. 86.

The Quakers in the American Colonies. (Assisted by President Isaac Sharpless and Amelia M. Gummere.) Macmillan & Co., London, pp. 603 + xxxii.

KELSEY, RAYNER W.—*English History and the Present Crisis*. History Teachers' Magazine, January, 1911, pp. 4.

Abolishing the House of Lords. The Independent, December 29, 1910, pp. 2.

The History of Quakerism Beyond the Mississippi. The American Friend, March 2, 16, 30, 1911, pp. 7.

PALMER, FREDERIC, JR.—*Volume Ionization Produced by Light of Extremely Short Wave-Length*. Physical Review, Vol. XXXII, January, 1911, pp. 22.

PRATT, HENRY S.—*Passive Resistance in Austria*. The Nation (New York), Vol. 92, April 22, 1911, pp. 393-395.

On Galactosomum cochleariforme Rudolphi. Zoologischer Anzeiger, Vol. 38, August 15, 1911, pp. 143-148, with 5 figures.

REID, LEGH W.—*The Elements of the Theory of Algebraic Numbers*. Macmillan & Co., October, 1910, pp. 454 + xv.

SHARPLESS, ISAAC.—*History of Philadelphia Yearly Meeting*, in "The Quakers in the American Colonies." Macmillan & Co., 1911, pp. 165.

Friends' Influence on Education in America. Cyclopedia of Education, edited by Paul Monroe.

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SPIERS, A. G. H.—*Dolce Stil Nuovo*. Publications of the
Modern Language Association, pp. 657-675.

WILSON, ALBERT H.—*Automorphs of the Binary Quartic*.
American Journal of Mathematics, January, 1911,
pp. 8.

SUMMARY OF THE ACCOUNT OF THE TREASURER OF THE CORPORATION OF HAVERFORD COLLEGE

For the Year ending Eighth mo. 31st, 1911.

RECEIPTS.

Income from investments:

General Endowment Fund.....	\$5,154.16
Thomas P. Cope Fund.....	228.58
Edward Yarnall Fund.....	298.90
Alumni Library Fund.....	827.06
Isaiah V. Williamson Fund.....	1,046.50
John Farnum Memorial Fund.....	1,858.01
John M. Whitall Fund.....	502.59
Richard T. Jones Scholarship Fund.....	225.00
David Scull Fund.....	2,023.16
Edward L. Scull Fund.....	548.41
Wistar Morris Memorial Fund.....	208.26
Mary Farnum Brown Library Fund.....	1,608.60
Mary M. Johnson Scholarship Fund.....	371.06
Sarah Marshall Scholarship Fund.....	353.22
Israel Franklin Whitall Fund.....	592.90
Jacob P. Jones Endowment Fund.....	36,072.64
Clementine Cope Fellowship Fund.....	1,222.28
John Farnum Brown Fund for Bible Study and Religious Teaching.....	6,591.98
Ellen Waln Fund.....	359.92
Clementine Cope Endowment Fund.....	1,072.55
Thomas Shipley Fund.....	229.50
Elliston P. Morris Fund.....	46.75
Nathan Branson Hill Trust.....	9.95

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Joseph E. Gillingham Fund.....	\$2,449.79	
The President Sharpless Fund.....	2,155.85	
Henry Norris Fund.....	217.37	
John B. Garrett Reading Prize Fund.....	98.00	
William P. Henszey Fund.....	1,794.52	
Jacob P. Jones Benefit Fund.....	3,198.39	
Pliny Earle Chase Memorial Fund.....	180.00	
Special Endowment Fund.....	490.00	
Special Library Fund.....	245.00	
Haverford College Pension Fund.....	93.64	
John W. Pinkham Fund.....	32.78	
	<hr/>	\$72,407.32
Board and tuition, cash.....	\$42,911.32	
Board and tuition, scholarships.....	14,525.00	
	<hr/>	57,436.32
Board and Tuition for succeeding years.....	1,990.00	
Board of professors.....	1,248.39	
Rents.....	3,525.00	
Stationery, etc.....	800.84	
Income credited to Contingent Account.....	489.29	
Receipts for account of previous years.....	1,263.23	
Proceeds of land sold for account of Jacob P. Jones Benefit Fund.....	53,512.45	
Legacy under the will of Justus C. Strawbridge.....	10,000.00	
Donations:		
For New Science Hall.....	\$24,178.02	
To Increase John Farnum Brown Fund.....	20,612.89	
To found John W. Pinkham Fund.....	5,000.00	
For Infirmary Endowment Fund.....	3,535.00	
For Salaries, Scholarships, etc.....	1,183.78	
	<hr/>	54,509.69
Money borrowed temporarily.....		171,700.00
Investments realized:		
General Endowment Fund.....	\$1,900.00	
Thomas P. Cope Fund.....	3,400.00	
Isaiah V. Williamson Fund.....	1,800.00	
John Farnum Memorial Fund.....	1,600.00	

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David Scull Fund.....	\$2,000.00	
Edward L. Scull Fund.....	100.00	
Mary Farnum Brown Library Fund.....	2,750.00	
Jacob P. Jones Endowment Fund.....	102,607.00	
Clementine Cope Fellowship Fund.....	2,000.00	
Ellen Waln Fund.....	7,000.00	
President Sharpless Fund.....	6,000.00	
Jacob P. Jones Benefit Fund.....	21,750.00	
Pliny Earle Chase Memorial Fund.....	4,000.00	
		\$156,907.00
Balance on hand Eighth month 31st, 1910:		
In the hands of the President.....	\$1,000.48	
In the hands of the Treasurer.....	922.30	
		1,922.78
		<u>\$587,712.31</u>

PAYMENTS.

Salaries.....	\$54,007.32
Provisions.....	17,051.18
Wages.....	12,933.44
Repairs and improvements.....	5,594.22
Fuel and lights.....	5,590.31
Interest.....	3,391.11
Family expenses and furniture.....	2,553.56
Lawn and garden.....	2,444.61
Taxes.....	1,943.52
Incidentals.....	1,152.62
Scientific equipment.....	933.38
Gymnasium, etc.....	156.68
Printing and advertising.....	1,678.88
Insurance.....	901.62
Farm.....	1,937.82
Books, etc., from income Alumni Library Fund	791.40
Books, etc., from income Special Library Fund.	259.71
Books, etc., from income Mary Farnum Brown Library Fund.....	1,401.96

HAVERFORD COLLEGE.

Lectures from income Mary Farnum Brown Library Fund.....	\$360.00	
Lectures from income Thomas Shipley Fund...	95.00	
Prize from income Elliston P. Morris Fund....	80.00	
Annuity from Pliny Earle Chase Memorial Fund.....	100.00	
Prizes from income John B. Garrett Reading Prize Fund.....	87.43	
Prizes from income John Farnum Brown Fund.	87.67	
Net accrued interest on investments for Justus C. Strawbridge Fund.....	54.72	
	<hr/>	\$115,588.16
Scholarships and Fellowships:		
Income General Endowment Fund.....	\$ 1,500.00	
Income Thomas P. Cope Fund.....	300.00	
Income Edward Yarnall Fund.....	200.00	
Income Isaiah V. Williamson Fund.....	1,200.00	
Income Richard T. Jones Scholarship Fund..	225.00	
Income Mary M. Johnson Scholarship Fund	400.00	
Income Sarah Marshall Scholarship Fund...	300.00	
Income Jacob P. Jones Endowment Fund...	9,200.00	
Income Clementine Cope Fellowship Fund..	500.00	
Income Joseph E. Gillingham Fund.....	800.00	
	<hr/>	14,625.00
Paid out of Donation Account:		
For New Science Hall.....	\$41,493.61	
For Salaries, Scholarship, etc.....	899.22	
	<hr/>	42,392.83
Paid temporarily on account of loans, out of funds awaiting investment.....		161,200.00
Investments made:		
General Endowment Fund.....	\$ 3,000.00	
Thomas P. Cope Fund.....	3,000.00	
Alumni Library Fund.....	686.00	
Isaiah V. Williamson Fund.....	5,254.00	
John Farnum Memorial Fund.....	2,906.25	
David Scull Fund.....	2,615.63	

HAVERFORD COLLEGE.

Edward L. Scull Fund.....	\$588.00	
Mary Farnum Brown Library Fund.....	4,170.00	
Jacob P. Jones Endowment Fund.....	168,517.77	
Clementine Cope Fellowship Fund.....	2,254.00	
John Farnum Brown Fund for Bible Study and Religious Teaching.....	20,433.75	
Ellen Waln Fund.....	7,000.00	
The President Sharpless Fund.....	8,500.00	
Jacob P. Jones Benefit Fund.....	2,800.00	
Pliny Earle Chase Memorial Fund.....	4,165.62	
Haverford College Pension Fund.....	6,048.00	
Justus C. Strawbridge Fund.....	10,000.00	
		<hr/> \$251,939.02
Balance on hand Eighth month 31, 1911:		
In the hands of the President.....	\$ 1,683.35	
In the hands of the Treasurer.....	283.95	
		<hr/> 1,967.30
		<hr/> \$587,712.31
		<hr/> <hr/>

FINANCIAL STATEMENT

For the Year ending Eighth month 31, 1911

Expenses of running the College, as per foregoing Statement of the Treasurer.....	\$115,588.16
Net cash receipts for Board and Tuition, Rents, Farm and from all other sources connected with the business of the College.....	50,474.85
	<hr/>
Leaving a deficiency of.....	\$ 65,113.31
Income from Invested Funds and Donations applicable to Scholarships and running expenses.....	63,547.88
	<hr/>
Leaving net deficiency for the year.....	\$ 1,565.43

REPORT ON EACH FUND

THOMAS P. COPE FUND.

Founded 1842.

Par value of invested funds.....	\$ 5,600.00
Principal uninvested.....	433.21
	<hr/>
Total fund.....	\$ 6,033.21
Income on hand at beginning of year.....	\$ 22.79
Income received during the year.....	228.58
	<hr/>
	251.37
Paid for the Thomas P. Cope Scholarships.....	300.00
	<hr/>
Income overdrawn at end of the year.....	\$ 48.63

HAVERFORD COLLEGE.

GENERAL ENDOWMENT FUND.

Established 1847 and increased from time to time since.

Par value of invested funds.....	\$103,600.00
Principal uninvested.....	447.74
<hr/>	
Total fund.....	\$104,047.74
Income received during the year.....	5,154.16
Paid for scholarships.....	\$ 1,500.00
Paid for general college expenses.....	3,654.16
<hr/>	
	\$5,154.16

EDWARD YARNALL FUND.

Founded 1860.

Par value of invested funds.....	\$ 6,100.00
Principal uninvested.....	47.46
<hr/>	
Total fund.....	\$ 6,147.46
Income overdrawn at beginning of year.....	\$ 1.20
Income received during year.....	298.90
<hr/>	
	297.70
Paid for the Edward Yarnall Scholarships.....	200.00
<hr/>	
Income on hand at end of year.....	\$ 97.70

ALUMNI LIBRARY FUND.

Established by the Alumni Association, 1863.

Par value of invested funds.....	\$ 18,650.00
Principal uninvested.....	89.37
<hr/>	
Total fund.....	\$ 18,739.37
Income overdrawn at beginning of year.....	\$ 49.49
Income received during the year.....	827.06
<hr/>	
	777.57
Paid for books, etc.....	791.40
<hr/>	
Income overdrawn at end of year.....	\$ 13.83

HAVERFORD COLLEGE.

ISAIAH V. WILLIAMSON FUND.

Founded 1876 and increased 1883.

Par value of invested funds.....	\$ 21,800.00
Principal uninvested.....	31.30
<hr/>	
Total fund.....	\$ 21,831.30
Income on hand at end of year.....	\$ 420.09
Income received during the year.....	1,046.50
<hr/>	
	1,466.59
Paid for scholarships.....	1,200.00
<hr/>	
Income on hand at end of year.....	\$ 266.59

JOHN FARNUM MEMORIAL FUND.

**Established 1878, increased by Legacy of Elizabeth H. Farnum
in 1899.**

Par value of invested funds.....	\$ 40,200.00
Principal uninvested.....	73.05
<hr/>	
Total fund.....	\$ 40,273.05
Income received during the year.....	1,858.01
Paid toward support of Chair endowed by this fund....	1,858.01

JOHN M. WHITALL FUND.

Founded in 1880.

Par value of invested funds.....	\$ 10,000.00
Principal uninvested.....	513.39
<hr/>	
Total fund.....	\$ 10,513.39
Income received during the year.....	502.59
Appropriated for salaries.....	502.59

RICHARD T. JONES SCHOLARSHIP FUND.

Founded by Will of Jacob P. Jones, 1885.

Par value of the fund.....	\$ 5,000.00
Income received during the year.....	225.00
Paid for Richard T. Jones Scholarship.....	225.00

HAVERFORD COLLEGE.

DAVID SCULL FUND.

Founded 1885.

Par value of invested funds.....	\$ 46,700.00
Principal uninvested.....	42.37
<hr/>	
Total fund.....	\$ 46,742.37
Income received during the year.....	2,023.16
Paid toward salaries, etc.....	2,023.16

EDWARD L. SCULL LEGACY.

Received in 1885.

Par value of invested funds.....	\$ 12,100.00
Principal uninvested.....	83.57
<hr/>	
Total fund.....	\$ 12,183.57
Income received during the year.....	548.41
Appropriated for salaries.....	548.41

WISTAR MORRIS MEMORIAL FUND.

Founded 1892.

Par value of invested funds.....	\$ 5,000.00
Income received during the year.....	208.26
Appropriated for salaries.....	208.26

MARY FARNUM BROWN LIBRARY FUND.

Founded 1892.

Par value of invested funds.....	\$ 34,300.00
Amount uninvested.....	122.08
<hr/>	
Total fund.....	\$ 34,422.08
Income received during the year.....	\$ 1,608.60
Income overdrawn at end of year.....	153.36
<hr/>	
	1,761.96
Income appropriated for books, etc.....	1,401.96
Income appropriated for lectures.....	360.00
<hr/>	
	1,761.96

HAVERFORD COLLEGE.

MARY M. JOHNSON SCHOLARSHIP FUND.

Founded 1897.

Par value of invested funds.....	\$ 8,000.00
Amount uninvested.....	395.00
<hr/>	
Total fund.....	\$ 8,395.00
Income on hand at beginning of year.....	\$ 78.34
Income received during the year.....	371.06
<hr/>	
	449.40
Paid for Mary M. Johnson Scholarships.....	400.00
<hr/>	
Income on hand at end of year.....	\$ 49.40

SARAH MARSHALL SCHOLARSHIP FUND.

Founded 1897.

Par value of invested funds.....	\$ 7,700.00
Amount uninvested.....	71.19
<hr/>	
Total fund.....	\$ 7,771.19
Income on hand at beginning of the year....	\$ 91.45
Income received during the year.....	353.22
<hr/>	
	444.67
Paid for Sarah Marshall Scholarships.....	300.00
<hr/>	
Income on hand at end of the year.....	\$ 144.67

ISRAEL FRANKLIN WHITALL FUND.

Founded 1896.

Par value of invested funds.....	\$ 12,500.00
Amount uninvested.....	46.87
<hr/>	
Total fund.....	\$ 12,546.87
Income received during the year.....	592.90
Appropriated for salaries.....	592.90

HAVERFORD COLLEGE.

JACOB P. JONES ENDOWMENT FUND.

Founded 1897.

Par value of invested funds.....	\$759,350.00
Amount uninvested.....	25,719.82
<hr/>	
Total fund.....	\$785,069.82
Income received during the year.....	36,072.64
Appropriated for scholarships.....	\$ 9,200.00
Appropriated for general expenses.....	26,872.64
<hr/>	
	36,072.64

CLEMENTINE COPE FELLOWSHIP FUND.

Founded 1899.

Par value of invested funds.....	\$ 25,100.00
Amount uninvested.....	43.70
<hr/>	
Total fund.....	\$ 25,143.70
Income on hand at beginning of the year.....	\$ 1,173.23
Income received during the year.....	1,222.28
<hr/>	
	2,395.51
Paid for fellowships.....	500.00
<hr/>	
Income on hand at end of year.....	\$ 1,895.51

**JOHN FARNUM BROWN FUND FOR BIBLE STUDY AND
RELIGIOUS TEACHING.**

Founded 1900 and increased later.

Par value of invested funds.....	\$178,200.00
Amount uninvested.....	791.83
<hr/>	
Total fund.....	\$178,991.83
Income received during the year.....	6,591.98
Income appropriated for salaries.....	\$ 6,190.00
Income paid for prizes.....	87.67
Income transferred to principal.....	314.31
<hr/>	
	6,591.98

HAVERFORD COLLEGE.

ELLEN WALN FUND.

Founded 1900.

Par value of invested funds.....	\$ 11,000.00
Amount uninvested.....	97.10
<hr/>	
Total fund.....	\$ 11,097.10
Income received during the year.....	359.92
Income appropriated for general expenses.....	359.92

CLEMENTINE COPE ENDOWMENT FUND.

Founded 1904.

Par value of invested funds.....	\$ 31,000.00
Amount uninvested.....	108.75
<hr/>	
Total fund.....	\$ 31,108.75
Income received during the year.....	1,072.55
Income appropriated for general expenses.....	1,072.55

THOMAS SHIPLEY FUND.

Founded 1904.

Par value of invested funds.....	\$ 5,000.00
Amount uninvested.....	225.00
<hr/>	
Total fund.....	\$ 5,225.00
Income on hand at beginning of the year.....	\$ 522.00
Income received during the year.....	229.50
<hr/>	
	751.50
Income appropriated for lectures.....	95.00
<hr/>	
Income on hand at end of the year.....	\$ 656.50

NATHAN BRANSON HILL TRUST.

Fund Established in 1904, held in trust by Minneapolis Trust Company, Minneapolis, Minn.

Income received during the year.....	\$ 9.95
Income appropriated for general expenses.....	9.95

HAVERFORD COLLEGE.

ELLISTON P. MORRIS FUND.

Founded 1906.

Par value of invested funds.....	\$	1,000.00
Amount uninvested.....		188.75
		<hr/>
Total fund.....	\$	1,188.75
Income on hand at beginning of year.....	\$	132.28
Income received during the year.....		46.75
		<hr/>
		179.03
Income paid for prize.....		80.00
		<hr/>
Income on hand at end of the year.....	\$	99.03

JOSEPH E. GILLINGHAM FUND.

Founded 1907.

Par value of invested funds.....	\$	53,000.00
Amount uninvested.....		117.25
		<hr/>
Total fund.....	\$	53,117.25
Income received during the year.....		2,449.79
Income appropriated for scholarships.....	\$	800.00
Income appropriated for general expenses.....		1,649.79
		<hr/>
		2,449.79

THE PRESIDENT SHARPLESS FUND.

Founded 1907.

Par value of invested funds.....	\$	43,500.00
Amount uninvested.....		593.87
		<hr/>
Total fund.....	\$	44,093.87
Income received during year.....		2,155.85
Income added to Haverford College Pension Fund.....		2,155.85

HAVERFORD COLLEGE.

HENRY NORRIS FUND.

Founded 1907.

Par value of invested funds.....	\$ 5,000.00
Amount uninvested.....	534.35
<hr/>	
Total fund.....	\$ 5,534.35
Income received during year.....	217.37
Income appropriated for general expenses.....	217.37

JOHN B. GARRETT READING PRIZE FUND.

Founded 1908.

Par value of fund, all invested.....	\$ 2,000.00
Income on hand at beginning of year.....	\$ 178.15
Income received during the year.....	98.00
<hr/>	
	276.15
Paid during the year for prizes.....	87.43
<hr/>	
Income on hand at end of the year.....	\$ 188.72

WILLIAM P. HENSZEY FUND.

Founded 1908 by Gift. Increased 1909 by Legacy.

Par value of invested funds.....	\$ 36,500.00
Principal uninvested.....	150.60
<hr/>	
Total fund.....	\$ 36,650.60
Income received during the year.....	1,794.52
Income added to Haverford College Pension Fund.....	1,794.52

JACOB P. JONES BENEFIT FUND.

Founded 1909 from proceeds of land sold for account Jacob P. Jones Legacy.

Par value of invested funds.....	\$ 44,800.00
Amount uninvested.....	19,277.73
<hr/>	
Total fund.....	\$ 64,077.33
Income received during the year.....	3,198.39
Income added to Haverford College Pension Fund.....	3,198.39

HAVERFORD COLLEGE.

PLINY EARLE CHASE MEMORIAL FUND.

Founded 1909.

Par value of invested funds.....	\$	4,300.00
Amount uninvested.....		90.24
		<hr/>
Total fund.....	\$	4,390.24
Income received during the year.....		180.00
Income paid to annuitant.....	\$	100.00
Income added to Haverford College Pension Fund.....		80.00
		<hr/>
		180.00

SPECIAL ENDOWMENT FUND.

Founded 1909.

Par value of funds, all invested.....	\$	12,000.00
Income received during the year.....		490.00
Income on hand at the end of year.....		490.00

SPECIAL LIBRARY FUND.

Founded 1910.

Par value of fund, all invested.....	\$	5,000.00
Income on hand at beginning of the year.....	\$	41.58
Income received during the year.....		245.00
		<hr/>
		286.58
Income used for purchase of books, etc.....		259.71
		<hr/>
Income on hand at end of the year.....	\$	26.87

HAVERFORD COLLEGE PENSION FUND.

Founded 1910.

Par value of invested funds.....	\$	6,100.00
Principal uninvested.....		2,512.66
		<hr/>
Total fund.....	\$	8,612.66
Income received during the year.....		93.64
Income added to the principal.....		93.64

HAVERFORD COLLEGE.

INFIRMARY ENDOWMENT FUND.

Founded 1911.

Total fund, uninvested.....\$ 3,518.20

JOHN W. PINKHAM FUND.

Founded 1911.

Total fund, uninvested.....\$ 5,000.00

Income received during the year..... 32.78

Income on hand at end of the year..... 32.78

JUSTUS C. STRAWBRIDGE FUND.

Founded 1911.

Par value of fund, all invested.....\$ 10,000.00

SUMMARY OF THE FUNDS.

General Endowment Fund.....	\$ 104,047.74
Thomas P. Cope Fund.....	6,033.21
Edward Yarnall Fund.....	6,147.46
Alumni Library Fund.....	18,739.37
Isaiah V. Williamson Fund.....	21,831.30
John Farnum Memorial Fund.....	40,273.05
John M. Whittall Fund.....	10,513.39
Richard T. Jones Scholarship Fund.....	5,000.00
David Scull Fund.....	46,742.37
Edward L. Scull Fund.....	12,183.57
Wistar Morris Memorial Fund.....	5,000.00
Mary Farnum Brown Library Fund.....	34,422.08
Mary M. Johnson Scholarship Fund.....	8,395.00
Sarah Marshall Scholarship Fund.....	7,771.19
Israel Franklin Whittall Fund.....	12,546.87
Jacob P. Jones Endowment Fund.....	785,069.82
Clementine Cope Fellowship Fund.....	25,143.70
John Farnum Brown Memorial Fund for Bible Study and Religious Teaching.....	178,991.83
Ellen Wain Fund.....	11,097.10
Clementine Cope Endowment Fund.....	31,108.75

HAVERFORD COLLEGE.

Thomas Shipley Fund.....	\$ 5,225.00
Elliston P. Morris Fund.....	1,188.75
Joseph E. Gillingham Fund.....	53,117.25
The President Sharpless Fund.....	44,093.87
Henry Norris Fund.....	5,534.35
John B. Garrett Reading Prize Fund.....	2,000.00
William P. Henszey Fund.....	36,650.60
Jacob P. Jones Benefit Fund.....	64,977.73
Pliny Earle Chase Memorial Fund.....	4,390.24
Special Endowment Fund.....	12,000.00
Special Library Fund.....	5,000.00
Haverford College Pension Fund.....	8,612.66
Infirmity Endowment Fund.....	3,518.20
John W. Pinkham Fund.....	5,000.00
Justus C. Strawbridge Fund.....	10,000.00
Total par value.....	<u>\$1,631,466.45</u>

being \$103,087.52 more than reported one year ago, as follows:

Proceeds of land sold for account of Jacob P. Jones Endowment Fund.....	\$ 53,512.45
Gifts to increase the John Farnum Brown Fund for Bible Study and Religious Teaching.....	20,612.89
Legacy from Justus C. Strawbridge.....	10,000.00
Income added to Haverford College Pension Fund.....	7,322.40
Gift to establish the John W. Pinkham Fund.....	5,000.00
Unused Income credited to principal as provided in terms of trusts.....	314.31
Gifts to establish the Infirmity Endowment Fund.....	3,518.20
Premiums on bonds sold and discount on bonds bought..	2,310.83
Income credited to principal for Contingent Account....	489.29
Sale of Lehigh Coal and Navigation Company right to subscribe to new stock.....	7.15
Total increase as above.....	<u>\$103,087.52</u>

HAVERFORD COLLEGE.

CERTIFICATE OF PUBLIC ACCOUNTANT.

A careful examination of these accounts kept by the Treasurer of the Corporation of Haverford College for year ending Eighth month 31st, 1911, has shown me that the above statement is correct. I saw proper vouchers and receipts for all disbursements entered, and cash on hand is as stated in said statement.

(Signed) ALFRED L. SELLERS,
Certified Public Accountant.

Ninth month 29th, 1911.

CERTIFICATE OF AUDITING COMMITTEE OF THE
BOARD OF MANAGERS.

We have had the accounts of the Treasurer of the Corporation of Haverford College for the year ending Eighth month 31, 1911, examined by a Certified Public Accountant, and his certificate as to the correctness of the accounts is attached to the foregoing summary.

We have personally examined the securities belonging to The Corporation of Haverford College at the above date, and find them to agree with the foregoing statement of the Treasurer.

{ (Signed) }

WM. H. HAINES,
FREDERIC H. STRAWBRIDGE,
MORRIS E. LEEDS,
J. HENRY SCATTERGOOD,

Auditing Committee.

PHILADELPHIA, Tenth month 4th, 1911.

LIST OF GIFTS TO LIBRARY

1910-1911

Friends' Historical Association.....	43
Smithsonian Institute.....	13
University of Pennsylvania.....	17
A. T. Murray.....	3
Harvard University.....	7
Students of Economics Class.....	17
Pennsylvania State Librarian	10
Librarian, Unjversity of Michigan.....	4
A. S. Wing	22
F. G. Rogers.....	42
A. K. Smiley.....	1
Dr. A. S. Bolles	119

CASH DONATIONS FOR THE YEAR ENDING 8th MONTH 31st, 1911

Charles F. Allen.....	\$ 10.00
Charles J. Allen.....	20.00
Samuel L. Allen.....	2,500.00
William K. Alsop.....	100.00
Edward M. Angell.....	10.00
Anonymous.....	100.00
George Ashbridge.....	25.00
James Ashbrook.....	100.00
W. G. Audenreid, Jr.....	25.00
Maurice J. Babb.....	5.00
John Bacon.....	100.00
Albert L. Baily.....	100.00
Charles W. Baily.....	50.00
Henry P. Baily.....	50.00
William L. Baily.....	50.00
Edwin J. Bevan.....	20.00
George A. Beyerle.....	20.00
Albert S. Bolles.....	24.00
Dr. Thomas Branson.....	300.00
Samuel K. Brecht.....	5.00
Charles F. Brede.....	10.00
Henry R. Bringhurst, Jr.....	25.00
Howard H. Brinton.....	15.00
Arthur Emlen Brown.....	20.00
Paul W. Brown.....	20.00
T. Wistar Brown.....	25,712.89
Daniel Lawrence Burgess.....	25.00
George T. Butler.....	5.00
Benjamin Cadbury.....	10.00
John W. Cadbury, Jr.....	10.00

HAVERFORD COLLEGE.

Richard Cadbury, Jr.....	\$ 10.00
William Edward Cadbury.....	25.00
A. Morris Carey.....	10.00
James Carey, Jr.....	25.00
John E. Carter.....	25.00
C. R. Cary.....	30.00
Class of 1852.....	100.00
Class of 1984.....	25.00
Class of 1896.....	20.00
Class of 1898.....	10.00
Class of 1905.....	600.00
Class of 1906.....	530.02
Class of 1908.....	140.00
William M. Coates.....	50.00
Alfred M. Collins.....	50.00
Minturn Post Collins.....	25.00
Stephen W. Collins.....	40.00
Howard Comfort.....	100.00
William Wistar Comfort.....	50.00
Francis R. Cope, Jr.....	25.00
Henry Cope.....	100.00
Alexander P. Corbitt.....	50.00
George C. Craig.....	25.00
J. W. Crowell.....	100.00
Benjamin S. DeCou.....	10.00
William Rush Dunton, Jr.....	} 15.00
William Rush Dunton, 3d.....	
Henry Hurd Dunton.....	
H. W. Elkinton.....	5.00
John Thompson Emlen.....	40.00
Edward W. Evans.....	25.00
Harold Evans.....	30.00
William T. Ferris.....	50.00
Elliott Field.....	5.00
Philip D. Folwell.....	50.00
J. M. Fox.....	25.00
A Friend.....	5.00
Friends' Historical Association.....	169.78

HAVERFORD COLLEGE.

Albin Garrett.....	\$ 100.00
Alfred C. Garrett.....	50.00
John B. Garrett.....	10.00
Julia Garrett.....	1,000.00
M. W. Gates.....	10.00
Charles E. Gause, Jr.....	25.00
Seth K. Gifford.....	10.00
Francis D. Godley.....	20.00
Kane S. Green.....	25.00
J. J. Guenther.....	25.00
Henry V. Gummere.....	100.00
Samuel J. Gummere.....	25.00
Chester J. Haig.....	10.00
Wilbur H. Haines.....	10.00
Walter Morris Hart.....	20.00
Francis C. Hartshorne.....	75.00
Walter W. Haviland.....	50.00
George K. Helbert.....	25.00
Benjamin R. Hoffman.....	50.00
Arthur Hoopes.....	20.00
Charles R. Hoover.....	10.00
Charles H. Howson.....	100.00
Furman S. Howson.....	25.00
Abram F. Huston.....	2,000.00
Cornelius Jansen.....	10.00
Horace M. Jenks.....	15.00
William P. Jenks.....	25.00
Alba B. Johnson.....	100.00
Ernest F. Jones.....	10.00
Rufus M. Jones.....	50.00
W. Judkins.....	25.00
E. O. Kennard.....	100.00
William M. C. Kimber.....	20.00
A. Wesley Kratz.....	12.00
Herbert S. Langfield.....	20.00
Arthur H. Leeds.....	250.00
Morris E. Leeds.....	100.00
Henry L. Levick.....	20.00

HAVERFORD COLLEGE.

Daniel C. Lewis.....	\$ 250.00
William Draper Lewis.....	25.00
Horace G. Lippincott.....	100.00
Edward R. Longstreth.....	50.00
William C. Longstreth.....	25.00
James L. Lynch.....	10.00
James P. Magill.....	10.00
Paul D. I. Maier.....	50.00
Michael H. I. March.....	20.00
Joseph L. Markley.....	25.00
Alfred C. Maule.....	25.00
Thomas J. Megear.....	25.00
Ralph Mellor.....	25.00
J. Kennedy Moorhouse.....	10.00
Christopher C. Morris.....	50.00
Harold H. Morris.....	10.00
Marriott C. Morris.....	25.00
Samuel W. Morris.....	50.00
Alfred B. Morton.....	20.00
J. W. Muir.....	10.00
Grayson M. P. Murphy.....	25.00
J. Whitall Nicholson, Jr.....	30.00
William H. Nicholson, Jr.....	10.00
John M. Okie.....	25.00
R. S. Philips.....	5.00
Cornelia F. Pinkham.....	5,000.00
Walter F. Price.....	25.00
William W. Pusey, 2d.....	10.00
Edward E. Quimby.....	50.00
William F. Reeve.....	50.00
Legh W. Reid.....	20.00
Charles J. Rhoads.....	550.00
R. Somers Rhoads.....	15.00
Theodore W. Richards.....	25.00
Dr. E. Roberts Richie.....	25.00
Frederic P. Ristine.....	25.00
J. V. Ritts.....	100.00
G. Brinton Roberts.....	150.00

HAVERFORD COLLEGE.

Jonathan T. Rorer.....	\$ 5.00
Edward C. Rossmässler.....	125.00
William R. Rossmässler.....	50.00
J. Henry Scattergood.....	250.00
The Balthazar Schmidt and Allied Families Association..	300.00
Andrew D. Schrag.....	10.00
Norris A. Scott.....	20.00
E. Marshall Scull.....	100.00
Schuyler Fisher Seager.....	100.00
C. Linn Seiler.....	25.00
John W. Sharp, Jr.....	100.00
Dr. Frederic C. Sharpless.....	25.00
Agnes G. E. Shipley.....	50.00
Edward H. Shoemaker.....	20.00
Jennie M. Shoemaker.....	25.00
William Percy Simpson.....	65.00
Allison W. Slocum.....	200.00
Alfred Percival Smith.....	400.00
Horace E. Smith.....	500.00
Reynold A. Spaeth.....	10.00
Francis J. Stokes.....	50.00
James M. Stokes, Jr.....	25.00
J. Stogdell Stokes.....	250.00
Charles Wharton Stork.....	250.00
Frederic H. Strawbridge.....	100.00
William J. Strawbridge.....	100.00
Frederick A. Swan.....	20.00
William E. Swift.....	10.00
Edward C. Tatnall.....	10.00
Emmett R. Tatnall.....	50.00
Charles S. Taylor.....	50.00
Edward B. Taylor.....	250.00
George H. Thomas.....	20.00
John R. Thomas.....	50.00
Jonathan Thorne.....	100.00
John T. Troth.....	10.00
Edward E. Trout.....	25.00
Frank K. Walton.....	20.00

HAVERFORD COLLEGE.

Alexander N. Warner.....	\$ 25.00
W. Nelson L. West.....	85.00
John M. Whitall.....	5,000.00
Elias H. White.....	50.00
Francis A. White.....	250.00
Miles White, Jr.....	150.00
Richard J. White.....	250.00
Charles H. Whitney.....	50.00
Parker S. Williams.....	25.00
William B. Windle.....	15.00
Asa S. Wing.....	500.00
James D. Winsor.....	25.00
C. Cresson Wistar.....	100.00
Alexander C. Wood, Jr.....	50.00
George H. Wood.....	16.00
Gilbert C. Wood.....	100.00
L. Hollingsworth Wood.....	150.00
William C. Wood.....	300.00
Gifford K. Wright.....	25.00
Alan S. Young.....	5.00
Total.....	<u>\$54,509.69</u>

SCHEDULE OF RECITATIONS FOR THE COLLEGIATE YEAR 1910-1911

	8.30	9.30	10.30	11.30	1.30	2.00	3.00
SECOND DAY		Bib. Lit. Bib. Lit. III Bib. Lit. II History I Govern. I Physics A	Econ. VII (VIII) French III Physics VI Chem. IV History V Greek IV Math. II Bib. Lit. I	German V Engin. I Econ. II Physics IV Physics V German IV French I Greek I	Phil. II Phil. III Chem. II, III, V Engin. IV Biol. VI Lab. Engin. III Greek II French II Latin I	Latin IV French A German A	
THIRD DAY	Econ. III Econ. IV Phil. I Engin. V Biol. IX, X German II Latin I	Phil. V Econ. I (Sec. 1) Physics I Biol. II Greek A Math. Ic' Eng. I (Rhet.)	Latin IV Econ. V, VI French A German A Biol. VI Chem. I Math. II Eng. I (Foren)	Math. VI Math. IV Econ. I (Sec. 2) History IV Italian I Latin II German I	Physics VII English V Biol. V Lab. History VI Engin. III Chem. I Lab. French I Greek I	English XI Biol. V Lab. History VI Engin. III Chem. I Lab. French I Biology I	
FOURTH DAY	Eng. IX Biol. VIII Engin. Iib Greek II French II Math. I Math. I'	Phil. IV Latin III German III Math. III Eng. III History I Govern. I Physics A	Econ. VII (VIII) French III Physics VI Chem. IV History V Greek IV Math. II Eng. II	German V Engin. I Econ. II Physics IV Physics V German IV French I Greek I	Phil. II Phil. III Chem. II, III, V Engin. IV Eng. Vlb Math. V Greek A Biol. II Lab. German I	Govern. III History II Physics I Latin I	
FIFTH DAY	Eng. IX Biol. VIII Engin. Iib Greek II French II Math. I Math. I'	Phil. IV Latin III German III Math. III Eng. III History I Govern. I Physics A	Meeting		Math. VI Math. IV Chem. II, III, V Engin. IV History IV Italian I Latin II German I	Greek IV Govern. III Biol. V Math. V German II Latin I	
SIXTH DAY	Econ. III* Econ. IV* Phil. I Engin. V Biol. IX, X German II Math. I Math. I'	Phil. V Econ. I (Sec. 1) Physics I Biol. II Greek A Math. Id Eng. I (Rhet.)	Latin IV Econ. V, VI French A German A Biol. VI Chem. I Math. II Eng. I (Foren) Math Ic	Math. VI Math. IV Econ. I (Sec. 2) History IV Italian I Latin II German I	Physics VII Eng. VIa Biol. V Lab. History VI Engin. III Chem. I Lab. French I Greek I	Eng. XI Biol. V Lab. History VI Engin. III Chem. I Lab. Biology I	
SEVENTH DAY	(Engin. VI) Latin III Phys. I Lab. Biol. II Lab. Math. I Math. I'	Math. III History II Greek A	The following unscheduled courses were offered for 1910-11, the hours for which were arranged to suit the programmes of the students electing said courses: Bib. Lit. IV (1); Greek V (1); Latin V (1); German IV or VI (2); French V (2); Old French (?); Math. VII-XV; Math. Ic' (2); Phil. VI (2); Physics VIII (2); Biol. IV (1 or more). Hours enclosed in parentheses () were not offered in 1910-11. Eng. = English; Engin. = Engineering.				

* The third hour of Econ. III and IV was arranged by consultation.

STATED MEETING OF THE CORPORATION AND OF THE MANAGERS

The Annual Meeting of "The Corporation of Haverford College" is held on the second Third-day in the Tenth month, at 3 o'clock P. M.

The Stated Meetings of the Managers are held on the third Sixth-day in the First, Third, Fifth, Ninth and Eleventh months.

LEGACIES

The friends of the College, including former students, and all who are interested in the promotion of sound learning, are invited to consider the College in the disposition of their estates by will.

FORM OF LEGACY

I give and bequeath (if personal)—devise (if real)—to "The Corporation of Haverford College," the sum of.....(or if real estate, describe it).....to have and to hold to them, their successors and assigns, to the use of the said "The Corporation of Haverford College," their successors and assigns.

Haverford College Bulletin

VOL X.

TWELFTH MONTH, 1911

No. 3

Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10, 1902, at Haverford, Pa.,
as Second Class Matter under Act of Congress of July 16, 1894

On October 25 was held a meeting in The Union to announce the opening of the new Hall for Chemistry. Dr. Edgar F. Smith, Provost of the University of Pennsylvania, and a chemist of distinction, made the principal address. After speaking of the practical uses of Laboratories he closed in these words which are worthy to be perpetuated:

"I am sure you will now agree that my contention that the chemical laboratory is near to us has been demonstrated, but I can't conclude without expressing my personal gratification and gratitude to you, President Sharpless, and to those in authority at Haverford, for the new laboratory opened officially to its students this day. I regard it as an evidence of the appreciation in which you hold your Professor of Chemistry. I take it to be your way of expressing to him the confidence he has won by his long period of devoted service to the College and her sons. I have known Dr. Hall longer than you have known him,—we were friends in student days when his brilliant, experimental work received the hearty commendation of our German Professors, and later as a Fellow in Johns Hopkins, where his industry and keen insight into most perplexing problems aided President Remsen in founding his splendid school of research. In all these years Dr. Hall has given himself so entirely to his subject that his knowledge of it has become profound. As a teacher I do not exaggerate when I say that he is second to none. In his old laboratory, while quietly

solving numerous problems of research, he has given unreservedly and unstintedly of himself to his pupils, believing their life-preparation to be his first duty, and how many there are at this moment, deep in the industries, who owe their successes to his watchful care, to his honest, hearty teachings. At the present moment the one chemist of our country upon whom the venerable and honored universities of the old world are showering academic honors to overflowing—the first and only American to deliver the Faraday lecture—is the brilliant and inimitable experimenter—Theodore William Richards—whose early lessons in chemistry were received from Dr. Hall in your old building. One such product, shedding glory and good report upon Alma Mater and teacher alike, is well worth the effort of years. Well may you be proud of teacher and pupil, and those of us without the fold will cheerfully add our congratulations and unite with you in prayers that as future classes gather in the new laboratory, they may gain not only a better insight into nature, achieve honor and reputation for themselves and Haverford, but that in so doing they may realize more forcibly than ever that back of all study, back of all research, stands God who kindly reveals and unfolds His thoughts in every phenomenon of nature. To His service and His glory may all future labors in the new laboratory be dedicated.”

Members of the Faculty will give popular illustrated lectures to the students and friends of the College through the winter months. This notice, with an invitation to attend, should be extended to any who might wish to accept it.

The program is as follows:

Wednesday, December 13th.

“The Influence of Woman.”

(A sketch of her development in the world of the Troubadours and of Dante.)

Professor A. G. H. Spiers.

Wednesday, January 10th.

"The Gyroscopè and the Monorail Car."

Professor F. Palmer, Jr.

Wednesday, February 21st.

"Ancient Ways in Modern Greece."

Professor W. W. Baker.

Wednesday, March 13th.

"Some New World Landmarks and Their Historic Significance."

Dr. R. W. Kelsey.

Wednesday, April 24th.

"Life in the Deep Sea."

Professor H. S. Pratt.

Dr. J. Duncan Spaeth, Professor of English in Princeton University, will give the Thomas Shipley Lecture some time in February. Later in the season Professor T. R. Glover, of Cambridge University, England, will lecture in the Haverford Library Course. Professor Glover is said to be a man of unusual powers as a lecturer from the point of view both of scholarship and of oratory. Dr. Inazo Nitobe, the representative of the Japanese government in this country, and Dr. George E. Vincent, the newly elected President of the University of Minnesota, will also give public lectures at the College. To all of these lectures a general invitation is extended.

It is a trite remark that says that one of the advantages of the small college is the opportunity it offers for real friendships between the professors and the students. It is a no less advantage that, needing one another's help to make up teams, as well as musical and other associations strong enough to represent the college, students of very different tastes are thrown together to their mutual benefit. Anything encouraging these two privileges of the Haverford student is good. It is therefore with pleasure that we note the new development

taking place in the influence of the Haverford Union. The alumni have been slow in paying this year's dues: on the other hand, the membership of the undergraduate body has increased. The number of students using the building daily will be further augmented as soon as the cosy corners, the easy chairs and the book shelves of the "Study" have been put in commission: the workmen are now busy on this job. The three bed rooms are frequently occupied. The treasurer has been obliged to keep a careful list of engagements for the Auditorium. Among dates for the near future are the Concert, given under the auspices of the Music Study Club on December 8th, and the faculty public lectures beginning December 13th. Besides the meetings of college organizations (*e. g.*, those of the Glee Club, Mandolin Club, Classical Club) the Union has now one of its own about once a month. The speaker of the November meeting, Richard Warren Barrett, was unfortunately prevented at the last minute from giving his talk. In an hour's time however sufficient talent was discovered in the college to supply a most enjoyable entertainment, after which, with much merriment and good feeling over the way in which both faculty and students had contributed what they could to make things amusing, everybody hastened to the basement and made short work of the ginger ale, cheese and pretzels. We believe that the alumni who were present must have taken considerable pleasure in noting this feeling of good fellowship all round and will agree with the statement which Dr. Lasker made in his account of his chess-playing in the Union three weeks ago, "It's (Haverford's) grounds and buildings are orderly, and its professors and pupils . . . seem to be on very good terms with each other."

A. G. H. S.

This bulletin is sent to all old members of The Union. A number of last year's members have not paid their dues. Is it their wish to have THE BULLETIN discontinued?

LIBRARY OF
HAVERFORD COLLEGE
HAVERFORD, PA.

HAVERFORD COLLEGE BULLETIN

VOL. X

FIRST MONTH, 1912

No. 4

Catalogue

1911-1912



Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10th, 1902, at Haverford, Pa.;
as Second-Class Matter under Act of Congress of July 16th, 1894.

CATALOGUE
OF
Haverford College
1911-1912



HAVERFORD, PA.

1912

JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
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FEBRUARY

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JULY

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OCTOBER

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NOVEMBER

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DECEMBER

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1913

JANUARY								MARCH								MAY							
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								30	31							31							
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FEBRUARY								APRIL								JUNE							
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								27	28	29	30					34							
								117	118	119	120					180	181						

CALENDAR

1911-1912

Examinations for Admission.....9th Mo. 25-26-27
College Year, 1911-1912, begins, 9.30 A. M....9th Mo. 27
First Quarter ends, 4.00 P. M.....11th Mo. 21
Thanksgiving Recess.....11th Mo. 30, 12th Mo. 1-2
Winter Recess begins, 4.00 P. M.....12th Mo. 20
Winter Recess ends, 1.30 P. M.....1st Mo. 4, 1912
Second Half-year begins, 9.30 A. M.....2nd Mo. 12
Third Quarter ends.....4th Mo. 7
Spring Recess begins, 10.30 A. M.....4th Mo. 13
Spring Recess ends, 9.30 A. M.....4th Mo. 22
Senior Class Day.....6th Mo. 13
Commencement and Alumni Day.....6th Mo. 14
Examinations for Admission.....6th Mo. 17-18-19

1912-1913

Examinations for Admission.....9th Mo. 23-24-25
College Year, 1912-1913, begins, 9.30 A. M....9th Mo. 26
First Quarter ends, 4.00 P. M.....11th Mo. 20
Thanksgiving Recess.....11th Mo. 28-29-30
Winter Recess begins, 10.30 A. M.....12th Mo. 21
Winter Recess ends, 9.30 A. M.....1st Mo. 6, 1913
Second Half-year begins, 9.30 A. M.....2nd Mo. 10
Third Quarter ends.....4th Mo. 6
Spring Recess begins, 10.30 A. M.....4th Mo. 12
Spring Recess ends, 9.30 A. M.....4th Mo. 21
Senior Class Day.....6th Mo. 12
Commencement and Alumni Day.....6th Mo. 13
Examinations for Admission.....6th Mo. 16-17-18



HAVERFORD COLLEGE

HISTORY AND DESCRIPTION

Haverford College was founded in 1833. It owes its origin to the insight and energy of a few members of the Society of Friends from Philadelphia and New York, who, in the spring of 1830, conceived the idea of founding an institution for education in the higher branches of learning. Its object, in the words of the founders, was "to combine sound and liberal instruction in literature and science with a religious care over the morals and manners, thus affording to the youth of our Society an opportunity of acquiring an education equal in all respects to that which can be obtained at colleges."

The founders were incorporated in 1833 under the laws of the Commonwealth of Pennsylvania into the Haverford School Association, a body now known as the Corporation of Haverford College. This corporation elects a board of managers for the control of its affairs and for the administration of its funds. For the founding of the school sixty thousand dollars was raised; but the sum proved insufficient for its maintenance, and for many years the financial deficit was met by liberal subscriptions of friends.

From 1845 to 1848 the school was closed in order to allow the funds to accumulate and to give time for the collection of an endowment. Since that time, by a number of generous bequests and donations, the amount of invested funds yielding interest has been increased to more than one and a half million dollars.

The first building of the College was Founders Hall, erected in 1833. The Observatory was built in 1852, and enlarged in 1883. In 1863 Alumni Hall was built, and in 1898 enlarged to meet the growing needs of the Library. In 1877 Barclay Hall, a dormitory, was erected by friends of the College. The Mechanical Laboratory was established in 1884, and was provided with a new building in 1890; this was burned down in 1896, and Whitall Hall, a new three-story structure, was built. The Biological Laboratory was established in 1886 and the Physical Laboratory in 1888. Chase Hall, for lectures and recitations, was built in the same year, the Cricket Shed in 1893. In more recent years during a period of rapid development made possible largely by the general and unfailing coöperation of the alumni, the following additions have been made to the College equipment: in 1899, Lloyd Hall, a dormitory; in 1900, a large and well equipped Gymnasium; in 1903, Roberts Hall, the gift of Lucy Branson Roberts, with college offices and a large auditorium; in 1903, Merion Hall, a dormitory, remodeled from the old Haverford Grammar School building; in 1905, an additional wing to Founders Hall for dining halls and

kitchen; in 1906, a permanent building for the heating and lighting plant; in 1907, the enlargement of Merion Hall; in 1909, the Haverford Union, a building presented by Alfred Percival Smith, '84; and, in 1910, the Chemical Laboratory. A modern infirmary, the gift of John T. Morris, '67, is now under construction. In addition to these college buildings there are a number of residences on the grounds which are occupied for the most part by professors.

The College has a pleasant and healthful location in the township of Haverford, Delaware County, Pennsylvania, nine miles west of the center of Philadelphia. It is accessible by the main line of the Pennsylvania Railroad and by the Philadelphia and Western Railway. The selection of this site is thus described by the first managers: "We wished to procure a farm in a neighborhood of unquestionable salubrity—within a short distance of a Friends' meeting—of easy access from this city at all seasons of the year recommended by the beauty of the scenery and a retired situation." And they reported that they had purchased for the sum of \$17,865 "an oblong tract of 198½ acres nearly south of the *eight mile* stone on the Lancaster Turnpike." This property has since been increased to two hundred and twenty-five acres with an estimated present value of over one and a half million dollars. While the greater part is retained as farm and woodland, a lawn of sixty acres **was long ago** graded and tastefully planted with trees and shrub

by a landscape gardener, so that the natural beauty of the location has increased with passing years. The grounds include three fields for cricket and Rugby and Association football, a running track, tennis courts, and a pond for skating.

Parallel with its material growth there have been changes in the inner life of the College which have affected the methods of administration rather than the essential principles on which the institution was founded. It has gradually increased in number of students but still enjoys the advantages of a small college. From the first it gave instruction of collegiate scope and grade. Accordingly in 1856 the name was changed from school to college and the right to confer degrees was granted by the Legislature. In 1861 the preparatory department was abolished. General courses are now given in arts, science, and engineering. The generous endowment for salaries and pensions enables the College to maintain a faculty of quite unusual size in proportion to the number of students, and to expend for the instruction, board, and lodging of each student about twice the sum which he pays.

In accordance with the modern ideals of religious and moral education, the students enjoy ample liberty, safeguarded by the wholesome physical life, by the traditions of the College, and by the intimate association with the professors and fellow-students. The deep religious spirit bequeathed by the Quaker founders has been carefully cherished, and high ideals of life and conduct are main-

tained, but in the admission of students and in the appointment of instructors there are no denominational distinctions. The aims of Haverford have been gradually developing and its function is becoming more and more clear—"to encourage the growth, among a limited number of young men, of vigorous bodies, scholarly minds, strong characters, and a real religious experience."

CORPORATION

President

T. WISTAR BROWN.....235 Chestnut St., Philadelphia

Secretary

J. STODDELL STOKES.....Summerdale, Philadelphia

Treasurer

ASA S. WING.....409 Chestnut St., Philadelphia

BOARD OF MANAGERS

President, ex officio

T. WISTAR BROWN.....235 Chestnut St., Philadelphia

Secretary

CHARLES J. RHOADS.....Girard Trust Co., Philadelphia

BOARD OF MANAGERS

11

Term Expires 1912

EDWARD BETTLE, JR.	514 Walnut St., Phila.
JAMES WOOD.	Mt. Kisco, N. Y.
ABRAM F. HUSTON.	Coatesville, Pa.
SAMUEL L. ALLEN.	1107 Market St., Phila.
THOMAS F. BRANSON.	Rosemont, Pa.
SETH K. GIFFORD.	Moses Brown School, Providence, R. I.
CHARLES J. RHOADS.	Girard Trust Co., Phila.
DANIEL SMILEY.	Mohonk Lake, N. Y.

Term Expires 1913

JOHN B. GARRETT.	Rosemont, Pa.
HOWARD COMFORT.	529 Arch St., Phila.
FRANCIS STOKES.	Locust Ave., Germantown, Phila.
GEORGE VAUX, JR.	1606 Morris Building, Phila.
STEPHEN W. COLLINS.	69 Wall St., New York, N. Y.
FREDERIC H. STRAWBRIDGE.	801 Market St., Phila.
J. HENRY SCATTERGOOD.	648 Bourse Building, Phila.
JONATHAN M. STEERE.	Girard Trust Co., Phila.

Term Expires 1914

BENJAMIN H. SHOEMAKER.	205 N. Fourth St., Phila.
WALTER WOOD.	400 Chestnut St., Phila.
WILLIAM H. HAINES.	1136 Ridge Ave., Phila.
FRANCIS A. WHITE.	1221 N. Calvert St., Baltimore, Md.
JOHN M. WHITALL.	410 Race St., Phila.
ISAAC SHARPLESS.	Haverford, Pa.
MORRIS E. LEEDS.	4901 Stenton Ave., Phila.
EDWARD W. EVANS.	711 Arcade Building, Phila.

HAVERFORD COLLEGE

1911-1912-

FACULTY

ISAAC SHARPLESS, Sc.D., LL.D., L.H.D.

President and Professor of Ethics.

ALLEN CLAPP THOMAS, A.M.

Librarian and Emeritus Professor of History.

LYMAN BEECHER HALL, Ph.D.

John Farnum Professor of Chemistry.

FRANCIS BARTON GUMMERE, Ph.D., LL.D., Litt.D.

Professor of English Literature.

HENRY SHERRING PRATT, Ph.D.

David Scull Professor of Biology.

JAMES ADDISON BABBITT, A.M., M.D.

Professor of Hygiene and Physical Education.

RUFUS MATTHEW JONES, A.M., Litt.D.

Professor of Philosophy.

OSCAR MARSHALL CHASE, S.M.

Registrar and Instructor in Drawing.

ALBERT SIDNEY BOLLES, Ph.D., LL.D.

Lecturer on Commercial Law and Banking.

DON CARLOS BARRETT, Ph.D.

Professor of Economics.

*ALBERT ELMER HANCOCK, Ph.D.

Professor of English.

* Absent 1911-12.

FACULTY

13

*LEGH WILBER REID, PH.D.

Professor of Mathematics.

WILLIAM WILSON BAKER, PH.D.

Associate Professor of Greek.

FREDERIC PALMER, JR., A.M.

Dean and Associate Professor of Physics.

LEON HAWLEY RITTENHOUSE, M.E.

Associate Professor of Mechanics and Electricity.

RICHARD MOTT GUMMERE, PH.D.

Associate Professor of Latin.

*THOMAS KITE BROWN, JR., A.M.

Instructor in German.

ALEXANDER GUY HOLBORN SPIERS, PH.D.

Associate Professor of Romance Languages.

RAYNER WICKERSHAM KELSEY, PH.D.

Associate Professor of History.

CLARENCE ELNATHAN NORRIS, A.M.

Instructor in German.

ALBERT HARRIS WILSON, PH.D.

Associate Professor of Mathematics.

HENRY JOEL CADBURY, A.M.

Instructor in Biblical Literature.

ALFRED LORANUS ATWOOD, A.B.

Instructor in Physical Training.

* Absent 1911-12.

HAVERFORD COLLEGE

JOSEPH EUGENE ROWE, PH.D.

Instructor in Mathematics.

JOSEPH HAINES PRICE, A.B.

Instructor in English.

WILLIAM HENRY COLLINS, A.M.

Superintendent of Buildings and Grounds.

HELEN SHARPLESS

Assistant Librarian.

JOHN STEELE DOWNING, S.B.

Assistant in the Chemical Laboratory.

PEARLE FRANZ ROBUCK, S.B.

Assistant in the Physical Laboratory.

GARFIELD W. WEAVER

Assistant in the Engineering Laboratory.

STANDING COMMITTEES OF THE FACULTY

LIBRARY—President Sharpless, Chairman; Professors Thomas, Hall, and F. B. Gummere.

CATALOGUE—Professor Barrett, Chairman; Professors Reid and Baker and H. J. Cadbury.

DELINQUENT STUDENTS—Professor Reid, Chairman; Professors Babbitt and Barrett and Dean Palmer.

STUDENT PETITIONS—Dean Palmer, Chairman; Professors Barrett, Hancock, and Rittenhouse.

ATHLETICS—President Sharpless, Chairman; Professor Babbitt, Dean Palmer, and Professor R. M. Gummere.

ADVANCED DEGREES—Professor F. B. Gummere, Chairman; Professors Hall, Jones, Reid, and R. M. Gummere.

STUDENTS

The letter A after the name of a student indicates that he is taking the Arts Course; s, the Course in General Science; E, the Course in Engineering. In the last column Bn is an abbreviation for Barclay Hall, North; Bc, for Barclay Hall, Center; Bs, for Barclay Hall, South; F, for Founders Hall; L, for Lloyd Hall; M, for Merion Hall; D, for day-student. An asterisk (*) indicates that a student is not in full class standing (see page 86).

GRADUATE STUDENTS

Downing, John Steele	<i>Elsmere, Del.</i>	12 M
S. B. (Haverford College) 1911. Assistant in Chemistry. Chemistry.		
Hartshorne, William Davis, Jr.	<i>Brighton, Md.</i>	41 Bc
A. B. (Haverford College) 1911. Teaching Fellow. Romance Languages.		
Price, Joseph Haines	<i>West Chester, Pa.</i>	37 Bc
A. B. (Haverford College) 1911. Instructor in English. English.		
Winslow, Caleb	<i>Baltimore, Md.</i>	39 Bc
A. B. (Haverford College) 1911. Teaching Fellow. Latin.		

SENIOR CLASS

Baily, Albert Lang, Jr.	A <i>Haverford, Pa.</i>	38 Bc
Baily, Joshua Longstreth, Jr.	A <i>Haverford, Pa.</i>	38 Bc
Balderston, Mark	A <i>Colora, Md.</i>	24 Bs
*Beebe, Stacey Kile	A <i>Paris, Ill.</i>	110 M
Bowerman, Arthur Lindley	A <i>Charleston, W. Va.</i>	11 M
Brewer, Paul Clisby, Jr.	E <i>Germantown, Pa.</i>	68 Bn
Brownlee, John Arthur	A <i>Sylvia, Kan.</i>	43 Bc
Carpenter, James McFadden, Jr.	A <i>Pittsburgh, Pa.</i>	3 L
Cope, Joshua Alban	S <i>Morton, Pa.</i>	15 M
*Durgin, Clyde Gowen	E <i>Saco, Me.</i>	43 Bc

STUDENTS

17

Elfreth, J. Benington, Jr.	A	Chicago, Ill.	115	M
Falconer, Douglas Platt	A	Darling, Pa.	14	M
Fansler, Ralph Lee	A	St. Davids, Pa.	21	Bs
Farquhar, Francis Hunt	S	Wilmington, Ohio	7	F
Ferris, Leslie Warren	A	Harborcreek, Pa.	4	M
Froelicher, Hans, Jr.	A	Baltimore, Md.	111	M
Howard, William Herbert	A	Mechanic, N. C.	3	F
*Howson, Horace	A	Wayne, Pa.	66	Bn
Hunt, Clarence Merle	A	Blanchester, Ohio	1	F
Lathem, Lance Brenton	A	Chester, Pa.	8	F
*Lewis, William Evan	A	Allentown, Pa.	3	L
Longstreth, Walter Wood	E	Rosemont, Pa.	109	M
*Lowry, Herbert Mendenhall	A	Philadelphia, Pa.	2	L
Maier, Harmon	A	Covington, Ohio	44	Bc
Marshburn, Albert Lawrence	A	Whittier, Cal.	1	F
Miller, Edward Imbrie	A	Lincoln University, Pa.	70	Bn
Miller, Robert Everts	A	Lancaster, Pa.	1	L
Moon, Charles Thompson	S	Fallsington, Pa.	24	Bs
Morris, Sydney Sharp	E	Berwyn, Pa.	69	Bn
*Murray, David Colden	A	Chappaqua, N. Y.	14	M
Nichols, Eli	S	Wilmington, Del.		D
Parker, John Hollowell	E	Baltimore, Md.	42	Bc
Poley, Irvin Corson	A	Mt. Airy, Pa.	107	M
Renninger, John Daub	A	Zieglerville, Pa.	66	Bn
Rhoad, Kenneth Andrew	A	South Bethlehem, Pa.	8	M
Ritts, Leonard Chase	A	Builer, Pa.	4	L
Roberts, William Hooten, Jr.	S	Moorestown, N. J.	2	L
Robuck, Pearle Franz	S	Midland, Ohio	7	Bs
Shipley, Thomas Emlen	A	Germantown, Pa.	105	M
Smiley, Francis Gerow	A	Mohonk Lake, N. Y.	8	M
Smith, Lloyd Mellor	A	Germantown, Pa.	4	L
Steere, Walter Hopkins	A	Chepachet, R. I.	69	Bn

HAVERFORD COLLEGE

Thomas, Henry Malcolm, Jr.	S	Baltimore, Md.	1 L
Votaw, George Joseph	A	Endora, Kan.	3 F
Wallerstein, Edward, Jr.	A	Germantown, Pa.	68 Bn

JUNIOR CLASS

*Baker, Paul Gay	A	Sullivan, N. H.	D
Beatty, Joseph Moorhead, Jr.	A	Bryn Mawr, Pa.	31 Bc
*Crosman, Charles Henry	A	Haverford, Pa.	58 Bn
Crowder, William Samuel	A	Germantown, Pa.	58 Bn
Curtis, Frederick Augustus	A	Wilmington, Del.	18 Bs
Diamant, Francis Harrar	S	Devon, Pa.	D
Froelicher, Francis Mitchell	A	Baltimore, Md.	102 M
Gifford, Philip Collins	A	Providence, R. I.	116 M
Goddard, Arthur Herbert	A	New Bedford, Mass.	6 F
Hall, Norris Folger	A	Haverford, Pa.	101 M
Hare, William Yarnall	S	West Chester, Pa.	67 Bn
*Hires, Charles Elmer, Jr.	S	Haverford, Pa.	D
*Howson, Richard	E	Wayne, Pa.	67 Bn
Kojima, Masayashi	A	Yonazo, Tottori, Japan	D
Longstreth, William Church	A	Germantown, Pa.	104 M
Ludlam, Jesse Diverty	A	Cape May Court House, N. J.	22 Bs
Maule, Edmund Richardson	A	Moorestown, N. J.	21 Bs
Meador, Stephen Warren	A	Gonic, N. H.	22 Bs
Montgomery, George	A	Philadelphia, Pa.	35 Bc
Nicholson, Herbert Victor	S	Lansdowne, Pa.	6 M
Porter, Oliver Moore	S	Philadelphia, Pa.	61 Bn
Tatnall, Joseph	A	Wilmington, Del.	6 M
Taylor, Norman Henry	A	New York, N. Y.	61 Bn
Van Sickle, John Valentine	A	Springfield, Mass.	103 M
Webb, William	A	Unionville, Pa.	35 Bc
Young, Charles Otis	S	Sag Harbor, N. Y.	31 Bc

STUDENTS

19

SOPHOMORE CLASS

Bell, Henry Ernest	E	Milton, N. Y.	112	M
Bentley, Jules Silvanus	A	Camden, N. J.	5	M
Bowerman, Walter Gregory	A	Charleston, W. Va.	17	M
*Clarke, Stewart Patterson	A	Devon, Pa.		D
Downing, George Valentine	S	Elsmere, Del.	12	M
Edgerton, Charles Willis	E	Haverford, Pa.		D
Elkinton, Alfred Walton	S	Moylan, Pa.	15	Bs
Elkinton, Howard West	A	Moylan, Pa.	15	Bs
Elkinton, Thomas William	S	Philadelphia, Pa.	13	Bs
Ferguson, Joseph Cooper, 3rd	S	Philadelphia, Pa.	60	Bn
Ferris, Malcolm	E	Philadelphia, Pa.		D
Garrigues, John Kittera	A	Haverford, Pa.		D
*Geisinger, William Shelly	A	Zionsville, Pa.	7	Bs
Green, Jesse Paul	A	Wilmington, Del.	16	Bs
Heym, Gerhard Carl	A	Chicago, Ill.	36	Bc
Jones, Edward Morris	A	West Grove, Pa.	113	M
*Lewis, Benjamin Jones	S	Broomall, Pa.	9	M
Locke, Robert Allison	E	Titusville, Pa.	114	M
*McFarlan, Roy	A	West Chester, Pa.		D
*McKinley, Rowland Paul	S	Wayne, Pa.		D
Miller, Harold Schaeffer	A	Philadelphia, Pa.	12	Bs
*Moore, Percy Warren	S	Philadelphia, Pa.	29	Bc
Offermann, Harry	A	Philadelphia, Pa.	40	Bc
Patteson, William Sheppard	S	Penn Yan, N. Y.	29	Bc
Philips, Rowland Stanton	A	Kennett Square, Pa.	63	Bn
Rice, Edward, Jr.	A	Cape May Court House, N. J.	64	Bn
Rogers, Robert Groves	A	Brooklyn, N. Y.	25	Bc
Russell, Charles	S	New York, N. Y.	5	L
Sangree, Paul Hudson	E	Philadelphia, Pa.	62	Bn
*Seckel, H. Wetherill	S	Moorestown, N. J.	60	Bn
*Smith, Robert Chapman	S	Philadelphia, Pa.	3	M

Stokes, Samuel Emlen	A	Moorestown, N. J.	5 L
*Stout, John Amos	A	Paoli, Ind.	7 L
Taylor, Herbert William	A	Malvern, Pa.	16 Bs
*Thomas, Leonard Van Hoesen	A	Haverford, Pa.	59 Bn
Waples, Douglas	A	Wayne, Pa.	59 Bn
Whitall, William Henry Bacon	S	Germantown, Pa.	6 L
Williams, Charles Rhoads	S	Philadelphia, Pa.	13 Bs

FRESHMAN CLASS

Allen, Percival Roy	E	Auburndale, Mass.	1 M
Bliss, Addison Leech	S	Boston, Mass.	8 L
Bowman, Edgar Milton	A	Kinzer, Pa.	20 Bs
Brinton, Walter Carroll	A	Frankford, Pa.	14 Bs
Carey, Galloway Cheston	A	Baltimore, Md.	50 Bn
Coleman, Nelson Bader	S	Scranton, Pa.	53 Bn
Crosman, Edward Newton, Jr.	E	Haverford, Pa.	D
Crosman, Loring Pickering	S	Saco, Me.	50 Bn
*Dodge, Karl	E	Germantown, Pa.	51 Bn
Dunn, Emmett Reid	S	Alexandria, Va.	5 F
Egolf, Paul Hewlett	E	Brooklyn, N. Y.	7 M
Ellison, James Sprague, Jr.	S	Philadelphia, Pa.	1 Bs
Falconer, Cyrus	A	Darling, Pa.	23 Bs
Farr, Edward Lincoln, Jr.	S	Wenonah, N. J.	4 Bs
Garrett, Hibbard	S	Chicago, Ill.	53 Bn
Gummere, John Westcott	A	Burlington, N. J.	55 Bn
Hallett, George Hervey, Jr.	A	Lansdowne, Pa.	13 M
Helveston, Harold William	E	Jenkintown, Pa.	D
Hendricks, Paul Craig	A	Chambersburg, Pa.	8 Bs
Hill, Gerald Ford	A	Boston, Mass.	52 Bn
Hoopes, Thomas, Jr.	S	West Chester, Pa.	52 Bn
Howson, Hubert Abbe	S	New York City, N. Y.	3 Bs
Kaleel, Mousa Jirius	S	Ramallah, Palestine	6 Bs

STUDENTS

21

Kling, Edward William	S	Chestnut Hill, Pa.	51 Bn
Leland, William Henry	E	Haverford, Pa.	54 Bn
Levis, Edward Megarge	A	Germantown, Pa.	71 Bn
Locke, Le Roy Dyer	S	Bellefonte, Pa.	72 Bn
McNeill, Joseph	A	Germantown, Pa.	2 Bs
Minot, Francis	S	Boston, Mass.	5 Bs
Moore, Edwin Lawton, Jr.	A	Philadelphia, Pa.	D
Morley, Felix Muskett	S	Baltimore, Md.	108 M
*Newell, Carl Leister	S	Brunswick, Me.	13 M
Nitobé, Yoshio	A	Tokyo, Japan	11 Bs
Pharo, Eugene Morris	S	Philadelphia, Pa.	106 M
Shaffer, Elmer	S	Philadelphia, Pa.	D
Tang, Man Hoi	S	Canton, China	56 Bn
Theis, Grover Cleveland	A	Germania, Pa.	6 Bs
Turner, Charles Brinkley	A	Overbrook, Pa.	9 Bs
Van Hollen, Donald Beauchamp	A	Baltimore, Md.	14 Bs
Votaw, Ernest Nicholson	A	Lansdowne, Pa.	7 M
*Wagner, Samuel, Jr.	A	West Chester, Pa.	8 Bs
Watson, Edgar Jordan	A	Merchantville, N. J.	17 Bs
Weikel, Malcolm Husted	A	Merchantville, N. J.	19 Bs
Whipple, Paul Kimball	A	Germantown, Pa.	23 Bs

SPECIAL STUDENTS

Barker, Albert Winslow	Moylan, Pa.	D
Gates, Morris White	Cincinnati, Ohio	6 L
Kellett, William Wallace	Germantown, Pa.	D
Lippmann, Leonard Blackledge	Overbrook, Pa.	7 L
Thomas, Lester Ralston	Avondale, Pa.	34 Bc
Sowell, George Aubrey	Moorestown, N. J.	2 M
Stokes, Francis Collins	Moorestown, N. J.	10 Bs

SUMMARY

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	<hr/>
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ADMISSION

Candidates for admission to the Freshman Class shall make application on a blank which will be furnished, on request, by the President of the College. (Compare page 88.)

Each candidate must also present a certificate of character from the principal of the school last attended. Principals are requested to write fully as to the character, habits, and ability of applicants. Such statements will have due weight in determining the question of admission.

The subjects which may be presented for admission are divided into two groups in accordance with the table on the next page. The figures given represent "units" according to the system of the Carnegie Foundation.

The subjects in group A, comprising six and one-half units, are required of all candidates.

In addition to the subjects in group A, students entering the Arts Course shall present subjects from group B having a total of eight units; of these subjects Latin (elementary and advanced) and one other language will be required.

Students hereafter entering the Science Courses shall present subjects from group B having a total of eight units (but in 1912 seven units only will be required); of these units at least four shall be in the languages.

Group A (required of all candidates):

English A*	}	..... 3
English B		
Algebra A	}	..... 1½
Algebra B		
Plane Geometry		..... 1
One History†		..... 1

Group B (elective):

Elementary Latin		..... 2
Advanced Latin	{ Cicero† Vergil Sight Translation }	..... 2
Greek		..... 3
German		..... 2
Elementary French		..... 2
One History		..... 1
Solid Geometry and Trigonometry		..... 1
Chemistry		..... 1
Physics		..... 1
Zoölogy		..... 1
Botany		..... 1
Physiology		..... 1

The candidate may give evidence of his preparation in these requirements by either of two plans, each of which requires the presentation of $14\frac{1}{2}$ units; except that, in 1912 only, $13\frac{1}{2}$ units will be accepted for admission to the

* For definitions of these subjects see pages 27-38.

† Candidates for the Arts Course must present Ancient History.

‡ Any two of the three subdivisions under Advanced Latin will be accepted, together with Elementary Latin, as constituting three units.

Science Courses. The two plans for admission are as follows:

I. *By Examination only.* The candidate must take entrance examinations in *all* the subjects which he presents for admission. He may take examinations in any of these subjects as preliminary examinations a full year or more before he intends to enter college, but no student will be admitted to a preliminary examination without a certificate from his teacher specifying the subjects in which he is prepared.

Students unable to pass all the examinations may be admitted with a few conditions. Each case will be decided on its merits.

II. *By both Examination and Certificate.* The student must present, on blanks supplied by the College and signed by the principal of the school which he has attended, a complete record of his work in all subjects during the last four years of preparation, with the time spent and the grade received in each study.

He must also take *three* entrance examinations in English, mathematics, and one foreign language. The English will be the examination defined as English B. The mathematics will be both Algebra B and Plane Geometry. The language required will be, for the Arts Course, Advanced Latin (Cicero, Vergil, and Sight Translation); for the Science Courses, either German or Elementary French. These examinations will have more time allotted to them than in the past, and, in some cases, alternative questions will be assigned to test the candidate's general knowledge and proficiency. The three examinations must all be taken at one time either in the Sixth month or the Ninth month.

Special Students.—Students not candidates for degrees may be permitted to pursue special courses, for proficiency in which certificates may be granted; but this permission will be given only to students of ability and character sufficient to insure their success.

Advanced Standing.—Candidates may be admitted to advanced classes if found proficient in all the preceding studies of the course. Each case will be considered on its merits. Students entering from other colleges must present certificates of honorable dismissal.

SCHEDULE OF ADMISSION EXAMINATIONS

Examinations for admission to the Freshman Class according to either of the plans described above are held at the College twice a year, in the Sixth month and the Ninth month. For students living at a distance special arrangements may be made for taking the examinations elsewhere. Examinations of the College Entrance Examination Board may be taken in place of the corresponding Haverford examinations.

In 1912 the order of examinations will be as follows:

Sixth month 17th and Ninth month 23rd.

9.00–12.00	German.
12.00–1.00	English A.
2.00–4.00	English B.
4.00–5.30	Physics.

Sixth month 18th and Ninth month 24th.

9.00–12.00	{ Cicero.
	{ Vergil.
	{ Latin Composition.

9.00-10.30	Zoölogy.
9.00-10.30	Botany.
11.45- 1.00	Elementary Latin.
2.00- 5.00	French, Elementary and Advanced.
2.00- 5.30	{ Xenophon.
	{ Homer and Sight Translation.
	{ Greek Composition.
2.00- 5.00	{ Solid Geometry.
	{ Trigonometry.
4.00- 5.30	Chemistry.
4.00- 5.30	Physiology.

Sixth month 19th and Ninth month 25th.

9.00-12.00	{ Plane Geometry.
	{ Algebra B.
12.00- 1.00	Algebra A.
2.00- 4.30	{ Ancient History.
	{ Medieval and Modern European History.
	{ English History.
	{ American History and Civil Government.

REQUIREMENTS IN THE SEVERAL STUDIES

ENGLISH

The requirements in English are those recommended by the Conference on Uniform Entrance Requirements in English.

The English examination is divided into two parts, A and B, which may be taken separately. No candidate will be accepted in English whose work is notably defective in points of spelling, punctuation, idiom, or division into paragraphs.

A. *Reading*.—Certain books are selected for reading. The candidate will be required to give a list of the books he has read. The form of examination will usually be the writing of a short theme on a subject chosen by the candidate from several set before him in the examination paper. The treatment of the topic should show the candidate's power of clear and accurate expression and will call for only a general knowledge of the substance of the books read.

For entrance in 1912 the candidate will choose ten books, under the restrictions indicated, from the following groups:

Group I (two to be selected):

Shakspere's *As You Like It*, *Henry V*, *Julius Cæsar*, *Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected):

Bacon's *Essays*; Bunyan's *Pilgrim's Progress*, *Part I*; *Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III (one to be selected):

Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury (First Series) Books II and III*, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected):

Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*;

Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected):

Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincey's *English Mail Coach* and *Joan of Arc*; Carlyle's *Heroes and Hero-Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected):

Coleridge's *Ancient Mariner*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and *Prisoner of Chillon*; Palgrave's *Golden Treasury (First Series) Book IV*, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; Browning's *Cavalier Tunes*, *Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Boy and the Angel*, *One Word More*, *Hervé Riel*, and *Pheidippides*.

For entrance in 1913, 1914, and 1915, the candidate will choose at least ten units* from the following groups, two units from each group:

Group I.

The *Old Testament*, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and

* Each unit is set off by semicolons.

Esther; the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Aeneid*. The *Odyssey*, *Iliad*, and *Aeneid* should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted..

Group II.

Shakespeare's *The Merchant of Venice*; *A Midsummer Night's Dream*; *As You Like It*; *Twelfth Night*; *Henry the Fifth*; *Julius Cæsar*.

Group III.

Defoe's *Robinson Crusoe*, Part I; Goldsmith's *The Vicar of Wakefield*; either Scott's *Ivanhoe*, or Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; either Dickens' *David Copperfield*, or Dickens' *A Tale of Two Cities*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; George Eliot's *Silas Marner*; Stevenson's *Treasure Island*.

Group IV.

Bunyan's *Pilgrim's Progress*, Part I; *The Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography* (condensed); Irving's *Sketch Book*; Macaulay's *Essays on Lord Clive and Warren Hastings*; Thackeray's *English Humourists*; *Selections from Lincoln*, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's *Oregon Trail*; either Thoreau's *Walden*, or Huxley's *Autobiography* and selections from

Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; Stevenson's *Inland Voyage* and *Travels with a Donkey*.

Group V.

Palgrave's *Golden Treasury (First Series)*, Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *The Deserted Village*; Coleridge's *The Ancient Mariner* and Lowell's *The Vision of Sir Launfal*; Scott's *The Lady of the Lake*; Byron's *Childe Harold*, Canto IV, and *The Prisoner of Chillon*; Palgrave's *Golden Treasury (First Series)* Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *The Raven*, Longfellow's *The Courtship of Miles Standish*, and Whittier's *Snow Bound*; Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*.

B. *Study and Practice*.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, style, and literary history.

The books set for this part of the examination will be, for entrance in 1912, 1913, 1914, and 1915: Shakespeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's speech on *Conciliation with America*, or

Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Essay on Johnson* or Carlyle's *Essay on Burns*.

MATHEMATICS

The definition of the requirements in Mathematics is the same as that of the College Entrance Examination Board.

Algebra A—To Quadratics.

The four fundamental operations for rational algebraic expressions.

Factoring, determination of highest common factor and lowest common multiple by factoring.

Fractions, including complex fractions, ratio and proportion.

Linear equations, both numerical and literal, containing one or more unknown quantities.

Problems depending on linear equations.

Radicals, including the extraction of the square root of polynomials and of numbers.

Exponents, including the fractional and negative.

Algebra B—Quadratics and beyond.

Quadratic equations, both numerical and literal.

Simple cases of equations, with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.

Problems depending on quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial affairs. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

Plane Geometry.

The usual theorems and constructions of good textbooks, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

The solution of numerous original exercises, including problems in loci.

Applications to the mensuration of lines and plane surfaces.

Solid Geometry.

The usual theorems and constructions of good textbooks, including the relation of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

The solution of numerous original exercises, including problems in loci.

Application to the mensuration of surfaces and solids.

Plane Trigonometry.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles.

Proofs of the principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas.

Solution of trigonometric equations of a simple character.

Theory and use of logarithms (without the introduction of work involving infinite series).

The solution of right and oblique triangles, and practical applications.

In each subject stress will be laid upon accuracy and neatness of work. Results should be verified.

HISTORY

The requirement in History is based on the recommendation of the Committee of Seven of the American Historical Association.

(a) *Ancient History*, with special reference to Greek and Roman history, and including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages down to the death of Charlemagne.

(b) *Medieval and Modern European History*, from the death of Charlemagne to the present time.

(c) *English History*.

(d) *American History and Civil Government*.

Each of the above topics is intended to represent one year of historical work wherein the study is given five times a week, or two years of historical work wherein the study is given three times a week.

The examination in history will be so framed as to require comparison and the use of judgment on the candidate's part as well as the use of memory. The examinations will presuppose the use of good text-books, collateral reading, and practice in written work. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

LATIN

Elementary. Cæsar, *Gallic War*, Books I-IV. The examination includes questions on forms and constructions and sight translation.

Advanced. (a) Cicero, the speech *On the Manilian Law*, the four *Against Catiline*, and the speech *For Archias*. (b) Vergil, *Aeneid*, Books I-VI. Sight translation in both (a) and (b). (c) Translation into Latin of an English passage, based on some portion of the Cæsar or of the Cicero prescribed. Other books of Cæsar or speeches of Cicero may be offered by the candidate instead of those mentioned, *provided due notice be given*.

GREEK

(a) Xenophon, *Anabasis*, Books I-IV; (b) Homer, *Iliad*, Books I-III, omitting the Catalogue of Ships. (c) The translation at sight of simple Attic prose. (d) The translation into Greek of a simple English passage based upon some portion of the Xenophon prescribed.

The examinations will be designed to test the candidate's knowledge of grammatical forms and construction, and his ability to translate into idiomatic English.

GERMAN

(a) The translation at sight of ordinary German prose. The passages set for translation must be rendered into correct idiomatic English. (b) The translation into German of simple English sentences or of easy connected prose, to test the candidate's familiarity with the grammar. (c) An accurate knowledge of the grammatical forms, rules, and constructions.

The passages set for translation into English will be suited to the proficiency of candidates who have read not less than three hundred pages, including reading at sight, from the works of at least three different authors. The books read in German A (see page 49) will be adequate for preparation.

FRENCH

Elementary. (Admits to Freshman French.) (a) The translation at sight of simple French prose. The passages set for translation must be rendered into correct idiomatic English. (b) The translation into French of English sentences. (c) Proficiency in grammar, including the conjugation of the more common irregular verbs.

The passages set for translation into English will be suited to the proficiency of candidates who have read not less than three hundred pages, including reading at sight, from the works of at least three different authors. The books read in French A (see page 51) will be adequate for preparation.

Advanced. (Admits to Sophomore French.) (a) Translation at sight of idiomatic nineteenth century French. (b) Translation into French of a connected passage of

simple English prose. (c) Thorough familiarity with grammar. As preparation, an equivalent of the work done in French I (see page 51) will be adequate. In addition, this examination will include the main points of the examination in Elementary French, and no candidate who fails upon these will be passed upon the examination as a whole.

PHYSICS

The examination will be based on one year's work, covering mechanics, sound, heat, light, and electricity. Emphasis will be laid upon the solution of problems. All students who have had laboratory work will be required to leave their laboratory note-books with the instructor at the time of the examination.

CHEMISTRY

The requirements in chemistry will comprehend a course of at least sixty experiments performed by the pupil and accompanied by systematic instruction in the common elements and their compounds, including chemical equations, the simple gas laws, and the fundamental atomic and molecular theories. The student's original laboratory note-book, endorsed by the instructor, must be presented at the time of the examination.

ZOOLOGY

The examination will be based upon one year's work, which should include dissection of types of the most important groups of the animal kingdom and a knowledge

of the classification of animals. The student's original laboratory note-book, endorsed by the instructor, must be presented at the time of the examination.

BOTANY

The examination will be based upon one year's work. The student will be expected to have a fairly definite knowledge of the seed and seedling, root, stem, and leaf, the flower and fruit, the cell, and the natural history and classification of plants. The student's original note-book, endorsed by the instructor, must be presented at the time of the examination.

PHYSIOLOGY

The examination will be based upon one year's work, and will cover definitions and principles of physiologic study; protoplasm and its functions; chemistry of body tissues; functional activity of muscular, nervous, epithelial, and connective tissues; the digestive, circulatory, and respiratory systems, and the special senses.

COURSES OF STUDY

I. COURSE IN ARTS

Latin and one other foreign language presented for admission must be continued during the Freshman and Sophomore years. If a third language is presented it may be continued when the daily program and the number of hours taken by the student permit. All courses given in any department are elective for Juniors and Seniors who have satisfactorily completed the prerequisites.

II. COURSES IN SCIENCE

(a) *Course in General Science*.—The elective list is practically the same as in the Course in Arts.

(b) *Courses in Engineering*.

1. *Course in Mechanical Engineering*.—This course consists largely of mathematics, applied science, and work in the shop and drawing-room.

2. *Course in Electrical Engineering*.—This course is similar to course 1. A number of advanced courses on electricity, including laboratory work, are required.

The table on the next pages presents the requirements in the several courses.

FRESHMEN.

ARTS.	GENERAL SCIENCE.	ENGINEERING.
English I and II.....*2	English I and II.....*2	English I and II.....*2
Latin I.....4	†French I.....4	†French I or German I.....4
Greek I or German I.....4	†German I.....4	Engineering III and IV....4
Mathematics I.....4	Mathematics I.....4	Mathematics I.....4
§Physics Aa or Government Ia.....3	§Physics Aa or Government Ia.....3	§Physics Aa or Government Ia.....3
History Ib.....1	History Ib.....1	History Ib.....1
Biblical Literature I....1	Biblical Literature I....1	Biblical Literature I.....1
Biology I and Physical Training.....2	Biology I and Physical Training.....2	Biology I and Physical Training.....2
English III.....2	English III.....2	English III.....2
Latin II.....3	†French II.....3	†French II or German II.....3
Greek II or French II or German II.....3	†German II.....3	Engineering IIIa and IIb } Engineering IV.....4
**Chemistry I or Mathematics II.....4	Chemistry I or Mathematics II.....4	Mathematics II.....4
**Physics I or Biology II or Greek A or History II and Economics I.....4	Physics I or Biology II or Greek A or History II and Economics I.....4	Physics I.....4
Biblical Literature II...1	Biblical Literature II...1	Biblical Literature II.....1
Physical Training.....2	Physical Training.....2	Physical Training.....2

SOPHOMORES.

JUNIORS.

English IV, V, or VI... 1	English IV, V, or VI... 1	English IV, V, or VI... 1
††Economics Ia } 3	††Economics Ia } 1	Physics VI... 3
Philosophy Ib } 3	Philosophy Ib } 3	Mathematics III... 3
†Electives... 1 2	†Electives... 1 2	Chemistry I... 4
		Engineering IIIa and IVa } 5
		Engineering Ib... 5

SENIORS.

English IV, V, or VII... 1	English IV, V, or VII... 1	English IV, V, or VII... 1
Philosophy Va and Vb... 3	Philosophy Va and Vb... 3	Philosophy Va and Vb... 3
†Electives... 1 2	†Electives... 1 2	Mathematics IV... 3
		Physics VII or } 3
		Engineering III or IV } 3
		Engineering V... 3
		Electives... 3

The letter *a* indicates first half-year. The letter *b* indicates second half-year.

* Figures in these columns indicate hours per week. In laboratory, gymnasium, and shop-work, two and one-half hours must be taken for each hour here indicated.

† A student presenting Greek or Latin for admission to the Science Courses may substitute German A and German I for German I and German II, or French A and French I for French I and French II in the Freshman and Sophomore years.

§ During the first half-year Physics A is required of all Freshmen who have not presented Physics for entrance. All others will take Government I.

** Instead of either of these groups, students who take both Greek and Latin may elect four hours of advanced Greek or Latin, or German I, or French I, provided their schedules permit.

†† For Juniors who have not elected it in the Sophomore year, Economics Ia is required. Juniors who have had Economics I will elect another course in its place.

‡ For requirements governing the choice of electives, see next page. An average of sixteen hours is required in both the Junior and Senior years; not less than thirteen hours may be taken in any half-year.

REQUIREMENTS GOVERNING THE CHOICE OF ELECTIVES
FOR JUNIORS AND SENIORS

In the Courses in Arts and General Science electives are chosen according to the following groups and requirements:

In the Arts course the groups are:

Group I. Greek, Latin, Mathematics.

Group II. English, German, French, History, Economics, Biology, Chemistry, Physics.

In the General Science Course the groups are:

Group I. Mathematics, Biology, Chemistry, Physics.

Group II. English, German, French, Greek, Latin, History, Economics.

Requirements for the Junior year:*

(1) Three hours from Group I.

(2) Six hours from Groups I and II.

(3) Three hours free electives.

Requirements for the Senior year* (either A or B to be chosen):

A.—(1) Six hours in *two* of the three subjects chosen under (1) and (2) in the Junior year.

(2) Six hours free electives.

B.—(1) Six hours in any *one* subject studied for at least three hours throughout half of the Junior year.

(2) Six hours free electives.

* Each student in the Science Course is required to take at least one three-hour course in Biology, Chemistry, or Physics in the Sophomore, Junior, or Senior year.

COURSES OF INSTRUCTION

GREEK

Greek I and II are required, respectively, of Freshmen and Sophomores in the Arts Course, who present Greek and Latin for admission and no other foreign language. (See page 39 and page 41, foot-note.) All Greek courses are open as electives to those properly qualified.

A. Course for Beginners. Thorough study of the elements of the language, followed by the reading of simple Attic prose; Xenophon, *Anabasis*; selections from other authors. This course is generally given in alternate years. Students in the Arts Course, who do not present Greek for admission and desire to begin the study at once, are permitted to substitute Greek A for French I or German I in the Freshman year. When not so taken, it is advised that the course be elected in the Sophomore year rather than later.

Professor Baker; 4 hours.

I. Freshman Greek. Selections from various prose authors; Homer, *Odyssey*. Sight reading. Greek composition. Collateral reading on Greek private life and Greek mythology.

Professor Baker; 4 hours.

II. Sophomore Greek. Xenophon, *Memorabilia*; Plato, *Apology*; selections from Aristophanes, *Clouds*; selected Greek tragedies. Sight reading. History of Greek literature.

Professor Baker; 3 hours.

III. *Greek Literature.* Thucydides, Books VI and VII; Demosthenes, Philippic and Olynthiac Orations; representative Greek dramas, both tragedy and comedy, with study of others in English translation.

Professor Baker; 3 hours.

[Not given in 1912-13.]

IV. *Greek Literature.* Plato, *Republic*; Demosthenes, *On the Crown*, and selections from Aeschines, *Against Ctesiphon*.

Professor Baker; 3 hours.

V. *Advanced Greek Prose Composition.* Exercises and conferences.

Professor Baker; 1 hour.

Vib. *Masterpieces of Greek Literature in English.* Knowledge of Greek is not necessary for this course. It is designed primarily for men who have not studied the language, but wish to get some idea of the literature. It will include (1) lectures on the history of Greek literature, its characteristic features, and its subsequent influence; (2) collateral reading, in translation, of the *Iliad* and *Odyssey*, selected works of Plato, and selected plays of Aeschylus, Sophocles, Euripides, and Aristophanes.

Professor Baker; 3 hours, second half-year.

Not given in 1912-13.]

LATIN

Latin I and II are required, respectively, of Freshmen and Sophomores in the Arts Course. All Latin courses are open as electives to those properly qualified.

A. *Course for Beginners.* This course is usually given in alternate years.

C. Winslow; 3 hours

I. *Freshman Latin*. Selections from Livy; Vergil, *Aeneid*, Books VII-XII, *Bucolics* and *Fourth Georgic*. Translation at sight. Prose composition.

Professor R. M. Gummere; 4 hours.

II. *Sophomore Latin*. Pliny, selected letters; Catullus; Horace, *Odes* and *Epodes*. Translation at sight. History of Latin literature.

Professor R. M. Gummere; 3 hours.

III. *Latin Literature*. Terence, *Andria*; Plautus, *Menaechmi* and *Captives*; selections from Lucretius; Quintilian, *Institutio Oratoria*, Book X. Translation at sight.

Professor R. M. Gummere; 3 hours.

IV. *Latin Literature*. The principal satires of Juvenal and Horace; Tacitus, *Annals*, Books I-VI. Translation at sight.

Professor R. M. Gummere; 3 hours.

[Not given in 1912-13.]

V. *Advanced Latin Composition*.

Professor R. M. Gummere; 1 hour.

VIa. *Comparative Literature*. Lectures on the relation of Latin literature to English literature.

Professor R. M. Gummere; 3 hours, first half-year.

ENGLISH LANGUAGE AND LITERATURE

English Ia, Ib, and II are required of all Freshmen, English III of all Sophomores, and English IV, V, VI, or VII of all Juniors and Seniors. The other courses are

elective for Juniors and Seniors. No student will be graduated who cannot write a creditable style extemporaneously.

Ia. *Freshman English*. The elements of rhetoric and studies in style. Genung, *Handbook of Rhetorical Analysis*. Extemporaneous speeches.

Professor R. M. Gummere and J. H. Price; 1 hour, first half-year.

Ib. *American Literature*. A brief historical and critical survey of American authors. Wendell, *A Literary History of America*. Extemporaneous speeches. Weekly themes.

Professor R. M. Gummere and J. H. Price; 1 hour, second half year.

II. *Freshman English Literature*. Lectures on the foundations of English literature, and on its development down to the time of Shakspeare.

Professor F. B. Gummere; 1 hour.

III. *Sophomore English*. Lectures on rhetoric and the appreciation of literature. Readings from selected authors. Weekly themes. Extemporaneous speeches.

Professor R. M. Gummere and J. H. Price; 2 hours.

IV. *Junior and Senior English*. Essays, extemporaneous themes, and general readings in literature, history, and biography. The regulations of this course are published in detail in a special pamphlet.

J. H. Price; 1 hour.

V. *Advanced Themes*. Discussion of the principles of literary art and method. Regular practice in the various forms of composition. The class will be limited to twelve members.
J. H. Price; 1 hour.

VI. *Forensics*. Advanced work in extemporaneous speaking. Occasional addresses and debates. Collateral readings and themes. The course is open to ten qualified members of the Junior class.
J. H. Price; 1 hour.

VII. *Public Speaking*. Addresses on social and political topics. Arguments and pleas for civic reforms. Collateral readings and themes. The course is open to eight qualified members of the Senior class.
J. H. Price; 1 hour.

VIIIa. *Early English*. Bright, *Anglo-Saxon Reader*; *Elene*; *Béowulf*.

Professor F. B. Gummere; 3 hours, first half-year.

IXa. *Middle English*. English literature in the thirteenth and fourteenth centuries. Chaucer, *Canterbury Tales*. English and Scottish ballads. Lectures and readings.

Professor F. B. Gummere; 3 hours, first half-year.

Xb. *Elizabethan Literature*. Lectures on the development of English literature, particularly of the drama, down to Shakspeare. Readings of old plays and Elizabethan masterpieces. All the plays of Shakspeare, two of which are read critically in class.

Professor F. B. Gummere; 3 hours, second half-year.

XIa. *English Literature of the Seventeenth Century.* Lectures, with readings in the general literature, and a special study of Milton. Selections from the minor poems, the *Comus*, certain books of *Paradise Lost*, and all of *Samson Agonistes* are read in class.

Professor F. B. Gummere; 3 hours, first half-year.
[Not given in 1912-13.]

XIIb. *Modern English Prose Writers.* Lectures on the lives and works of Steele, Addison, Defoe, Swift, Johnson, Goldsmith, Burke, Fielding, Sterne, De Quincey, Lamb, Landor, Hazlitt, Carlyle, Arnold, Ruskin, Dickens, Thackeray, George Eliot, and others. Collateral readings and reports.

[Professor Hancock]; 3 hours, second half-year.

XIIIb. *English Poetry of the Nineteenth Century.* Lectures on the lives and works of Burns, Coleridge, Wordsworth, Shelley, Byron, Keats, Arnold, Tennyson, Browning, Rossetti, Morris, and Swinburne. Collateral readings and reports.

Professors R. M. Gummere and Spiers; 3 hours, second half-year.

GERMAN

All German courses are elective for Juniors and Seniors who have satisfactorily completed the prerequisites.

Students wishing to qualify for German I may do so by passing either the examination in German A or the entrance examination.

A. *Course for Beginners.* Reading, grammar, composition, conversation, dictation, sight-reading. Prokosch's *German Grammar*. Such stories as the following are read: Guerber, *Märchen und Erzählungen*; Heyse, *L'Arrabbiata*; Storm, *Immensee*; Hauff, *Die Karawane* and *Das kalte Herz*; Müller, *Deutsche Liebe*; Eichendorff, *Aus dem Leben eines Taugenichts*; Baumbach, *Der Schwiegersohn*.

C. E. Norris; 3 hours.

I. *Freshman German.* Review of grammar and composition. Such books as the following are read: Batt and Allen, *German Stories*; Lessing, *Minna von Barnhelm*; Schiller, *Maria Stuart*; Goethe, *Hermann und Dorothea*; Dahn, *Ein Kampf um Rom*; Sudermann, *Frau Sorge*; Von Scheffel, *Der Trompeter von Säckingen*;

C. E. Norris; 4 hours.

II. *Sophomore German.* Rapid reading of such short stories as Grillparzer's *Der arme Spielmann* and Keller's *Romeo und Julia auf dem Dorfe*. A more careful study of standard dramas by Schiller, Kleist, and Hebbel, and of the first part of Goethe's *Faust*. Practice in writing German.

C. E. Norris; 3 hours.

IIIa. *German Prose Composition.* Review of grammar, dictation, conversation, written reports in German. A text, such as Bacon's *Im Vaterland*, is used as a basis for the introduction of the student to the language of modern daily life.

C. E. Norris; 3 hours, first half-year.

IVb. *Scientific German*. Rapid reading in class of difficult prose in science, history, and philosophy, together with private reading of articles in current German periodicals. Hodge's *German Science Reader*, and Nichol's *Modern German Prose*.

C. E. Norris; 3 hours, second half-year.

V. *Middle High German*. Paul, *Mittelhochdeutsche Grammatik*; *Das Nibelungenlied*; poems of Walther von der Vogelweide.

3 hours.

VI. *German Literature of the Nineteenth Century*. A course intended to show the outcome of the period in German literature which was dominated by Lessing, Schiller, and Goethe. The class work consists of lectures and the reading of texts; in addition to this, a considerable amount of outside reading is required. The authors especially studied are Tieck, H. von Kleist, Hebbel, Grillparzer, Heine, Hauptmann, and Sudermann.

[T. K. Brown, Jr.]; 3 hours, half-year.

FRENCH

All French courses are elective for Juniors and Seniors who have satisfactorily completed the prerequisites.

Students wishing to qualify for French I may do so by passing either the examination in French A or the entrance examination in Elementary French.

A. *Course for Beginners.* A course to give the student an elementary knowledge of grammar and a reading knowledge of the language. The following books are used: Fraser and Squair, *French Grammar*; About, *Roi des Montagnes*; Halévy, *Un Mariage d'Amour*; Labiche, *Le Voyage de Monsieur Perrichon*.

Professor Spiers; 3 hours.

I. *Freshman French.* Grammar work continued and rapid reading. The following books are used: Spiers, *Manual of Elementary French*; Sarcey, *Siège de Paris*; Thiers, *Expédition de Bonaparte en Egypte*; Voltaire, *Contes*; Loti, *Pêcheur d'Islande*; Daudet, *Contes*; Rostand, *Les Romanesques*.

Professor Spiers; 4 hours.

II. *Sophomore French.* Rapid reading, both in the class room and as outside work, of French classics. The following authors are read: Corneille, Racine, Molière, La Fontaine, Mme. de Lafayette, Voltaire, Chateaubriand, Hugo, Lamartine, Musset, Bornier, Rostand. In connection with the above the instructor gives a few lectures on the history of French literature.

Professor Spiers; 3 hours.

III. *History of French Literature.* A lecture course treating the history of French literature from its origins to the present time. A large amount of outside reading, with written reports, is required. This course is conducted in French, and is open only to students who have passed creditably in French II.

Professor Spiers; 3 hours.

IV. *Composition and Conversation.* A course in French conversation and advanced composition. This course may be elected only after consultation with the instructor.

Professor Spiers; 3 hours.

V. *French Authors and Literary Types.* Reading, conferences, and reports on limited fields of French literature—e. g., the work of Corneille, Racine, and Molière; French lyric poetry of the nineteenth century. This course is regularly open to Juniors and Seniors only; others may be admitted with the permission of the instructor. It counts as a two-hour course or as a three-hour course, according to the work chosen.

Professor Spiers.

SPANISH

I. *Course for Beginners.* An elementary course intended for those who wish the essentials of the Spanish language, either for a business career or for literary work. The following books are used: Hills and Ford, *A Spanish Grammar*; Alarcón, *El Sombrero de Tres Picos*; Taboada, *Cuentos Alegres*; Moratín, *El Sí de las Niñas*; Calderon, *La Vida es Sueño*; Ford, *Selections from Don Quijote*.

Professor Spiers; 3 hours.

[Not given in 1912-13.]

ITALIAN

I. *Course for Beginners.* An elementary course in reading Italian. Grandgent, *Italian Grammar*, and Marinoni, *Italian Reading*, are used. The following authors are read: Goldoni, Boccaccio, Dante.

Professor Spiers; 3 hours.

MATHEMATICS

The courses in mathematics are arranged as far as possible to suit the needs of those students who (1) take them as part of their required Freshman and Sophomore work and do not intend to proceed further in mathematics, (2) elect them as a minor subject and take either physics, engineering, or astronomy as a major subject, (3) take them as part of the required work of the Engineering Courses, or (4) elect them as a major subject.

Courses, I, II, III, and IV are given every year and V in alternate years. The electives to be offered in any one year will be such as the needs of the department may require. Courses, either for undergraduates or graduates, on certain subjects other than those named below may be arranged for by consultation with the instructor.

In the Library will be found some of the principal journals, treatises, and collected works. There are also libraries near by where other works and journals may be consulted. In one of the lecture rooms is a collection of mathematical models.

Courses Ia, Ib, Ia', and Ib' are required of all Freshmen, except that students who have presented solid geometry and trigonometry for entrance must substitute Ic' for Ia', Ib'. The required courses, together with Ic, constitute the honor courses in mathematics for Freshmen.

Courses IIa and IIb are for Sophomores. These courses, together with IIc, constitute the honor courses in mathematics for Sophomores.

Courses IIIa and IIIb should be taken by students electing mathematics in the Junior year. These courses,

together with IIIc, constitute the honor courses in mathematics for Juniors.

Courses IIIa and IIIb, and IVa and IVb are required of Engineering students.

The Freshman and Sophomore mathematical prizes are open only to students taking the honor courses in these years.

Ia and Ib. *Algebra*, including infinite series, undetermined coefficients, the binomial theorem for fractional and negative exponents, logarithms, probability, determinants, and the elements of the theory of equations. Fine, *College Algebra*. Dr. Rowe; 2 hours.

Ia'. *Solid Geometry and Mensuration*. Thompson, *Solid Geometry*.

Professor Wilson; 2 hours, first half-year.

Ib'. *Trigonometry*. The elements of plane trigonometry, including the solution of right and oblique plane triangles, with applications to practical problems. Lyman and Goddard, *Plane Trigonometry*.

Professor Wilson; 2 hours, second half-year.

Ic. *Special Topics in Algebra*. Dr. Rowe; 1 hour.

Ic'. *Special Topics in Trigonometry and Solid Geometry*, including spherical trigonometry.

Professor Wilson; 2 hours.

IIa. *Plane Analytic Geometry*. Fine and Thompson, *Coördinate Geometry*.

Professor Wilson; 4 hours, first half-year.

IIb. *Differential Calculus.* McMahon and Snyder,
Differential Calculus.

Professor Wilson; 4 hours, second half-year.

IIc. *Special Topics in Analytic Geometry.*

Professor Wilson; 1 hour.

IIIa. *Solid Analytic Geometry.* Fine and Thompson,
Coördinate Geometry.

Dr. Rowe; 3 hours, first half-year.

IIIb. *Integral Calculus and Elementary Differential Equations.* Murray, *Integral Calculus.*

Dr. Rowe; 3 hours, second half-year.

IIIc. *Special Topics in Calculus.*

Dr. Rowe; 1 hour.

IVa. *Elementary Statics and Dynamics.* Jeans, *Theoretical Mechanics.*

Professor Wilson; 3 hours, first half-year.

IVb. *Dynamics of a Particle and Elementary Rigid Dynamics.* Jeans, *Theoretical Mechanics.*

Professor Wilson; 3 hours, second half-year.

V. *Descriptive Geometry.* See Engineering IV.

A selection from the following courses is given each year. A student wishing to take any of them should apply to the professor in charge.

VI. *Introduction to the Theory of Functions.* Pre-requisite, IIIa. Harkness and Morley, *Introduction to Analytic Functions.*

[Professor Reid]; 3 hours.

VII. *Theory of Equations.* Cajori, *Theory of Equations.* An introduction to the Galois theory.

[Professor Reid]; 3 hours, half-year.

VIII. *Differential Equations.* The subject will be treated on lines similar to those of Forsyth's text-books. Prerequisite, IIIb.

Professor Wilson; 3 hours, half-year.

IX. *The Differential Equations of Physics.* Simple applications of the subject.

Professor Wilson; 3 hours, half-year.

X. *Introduction to Modern Geometry.*

[Professor Reid]; 3 hours, half-year.

XI. *Analytic Geometry of Three Dimensions.* Theory of surfaces and curves in space. C. Smith, *Solid Geometry.*

[Professor Reid]; 3 hours, half-year.

XII. *Elements of the Theory of Algebraic Numbers.*

[Professor Reid]; 3 hours.

XIII. *Higher Algebra and Projective Geometry.*

Dr. Rowe; 3 hours.

HISTORY

A liberal use of the College Library facilities is required in all the history courses. The modern methods of historical study are developed progressively throughout the four years.

History Ib is required of all Freshmen.

History II may be elected by Sophomores in connection with Economics I. History II, III, IV, V, and VI are electives for Juniors and Seniors.

Ib. European History. The two-fold object of this course is to develop the general background of historical knowledge in the student, and to introduce him to the methods of historical study. In a brief introductory survey the student is required to fix definitely in his mind some of the essential landmarks of medieval history. The course is then brought down to the present by a more thorough study of the modern period.

Professor Kelsey; 3 hours, second half-year.

II. General Course in English History. Much of the subject matter is obviously dealt with in outline form. The unity and continuity of English history is developed and emphasis is laid upon such phases of the subject matter as will especially aid the student in understanding modern constitutional development in Europe and the United States. Sophomores who elect this course must take Economics I the same year.

Professor Kelsey; 1 hour, first half-year.
3 hours, second half-year.

III. *American History to 1789.* Conditions in Europe leading to colonization, its motives and methods, expansion of the English colonies, rivalry of the English and the French, development of industrial, social, and political conditions, growth toward independence and union, the Revolution, the Confederation, the adoption of the Constitution.

[Not given in 1912-13.]

Professor Kelsey; 3 hours.

IV. *History of the United States, 1789-1909.* Constitutional and political history of the United States from the adoption of the Constitution to recent times. The following topics cover the points of chief emphasis in the course: the organization of the new government; the rise of political parties and the growth of nationality; westward extension; economic development and sectional divergence; the relation of slavery to the oncoming contest; the Civil War and the result; the latest period.

Professor Kelsey; 3 hours.

Vb. *Medieval History.* This course includes a survey of the civilization of Europe at the beginning of the Middle Ages and deals with the decline of the Roman Empire, the Gothic invasion, the rise and fall of Saracen civilization, the growth and decay of Charlemagne's empire, feudalism, the Crusades, the conflicts between the Empire and the Papacy, and the Reformation.

Dr. Bolles; 3 hours, second half-year.

VI. *Advanced Course in English History.* This course deals chiefly with the history of England from the Nor-

man conquest to recent times, but is prefaced by a brief review of the Anglo-Saxon period. The evolution of representative government in England and its relation to world society of to-day is emphasized. The larger lines of economic development are followed. Emphasis is laid also upon the history of the church in England, especially during the Reformation period and down to the establishment of the modern sects.

Intended primarily for Seniors.

Professor Kelsey; 3 hours.

ECONOMICS

Economics Ia is required of all Juniors in the Arts and General Science Courses who have not elected it in the Sophomore year. The other courses in Economics are elective.

Ia. Elementary Economics. The purpose in this course is to acquaint the student with the fundamental principles of the science and to promote his preparation for the duties of citizenship. The principles are developed from a study and discussion of the actual processes and organization of industrial society. A series of problems are set for solution and discussed in connection with the study of text-books, collateral reading, and lectures. Sophomores and Juniors may profitably take as an elective the second half of this course, Ib. If elected in the Sophomore year, History II must also be taken.

Professor Barrett; 3 hours, first half-year.

Ib. *Elementary Economics*. A continuation of course Ia. Open as a three-hour elective to Juniors and Sophomores who have taken Economics Ia, but required of such Sophomores one hour per week.

Professor Barrett; 3 hours, second half-year.

II. *Transportation and Corporations*. (a) The historical development and present status of railway systems and canals in the United States are treated. The problems of rate-making, pooling, consolidation, public control, are discussed. The relation of railways to shippers and to the public is shown. (b) A study is made of industrial organization and the trust problem. The topics include forms of business organization, covering partnerships, corporations, pools, trusts, and holding companies; the evils of corporate management, such as fraudulent promotion, over-capitalization, and speculation; public control.

Professor Barrett; 3 hours.

IIIa. *Labor Problems*. A study is made of the factory system, collective bargaining, trade unions, employers' associations, strikes and boycotts, methods of arbitration and conciliation, labor legislation and court decisions, employers' liability, compulsory insurance, etc. An extended investigation of some phase of the labor question is required of each student and the results are presented in a report to the members of the course. Lectures and discussion of assigned readings.

Professor Barrett; 3 hours, first half-year.

IVb. *Money and Banking*. The course begins with a review of the principles of money and of the functions of a bank, followed by a brief survey of the history and pres-

ent practice of banking in leading countries, but with extended study of conditions in the United States. Such practical problems as the monetary standard, paper money, credit, price movements and their effects on incomes, crises, foreign exchange, and the proposed reforms in our banking system are taken up.

Professor Barrett; 3 hours, second half-year.

Va. Commercial Law and Banking. An exposition of the leading principles of the law relating to contracts: who can make them; what assent is needful; what consideration is required; how they are interpreted and enforced. Also the law relating to particular subjects: sales, carriage of goods and passengers, agency, partnership, negotiable paper, checks, guaranty, surety, payments, interest, shipping, insurance, deeds and loans, and corporations. The practice and most important legal principles of banking; the methods of raising the capital; modes of organizing national and state banks, savings banks, trust and finance companies; the resources of a bank and the modes of lending them; the duties of its directors, president, cashier, tellers, bookkeepers, and other officials; public and private examinations and audits.

Dr. Bolles; 3 hours, first half-year.

VIa. Distribution of Wealth. A study is made of leading writers from Adam Smith to the present time, including Ricardo, Mill, Cairnes, Marshall, Böhm-Bawerk, and American economists. The object is to acquaint the student with various views on the problems of value and distribution, and to give a more thorough grasp of economic principles and economic conditions than is possible in Economics I.

Professor Barrett; 3 hours, first half-year.

VIIIb. *Sociology.* This course begins with an introduction to the general theory of sociology. A study is made of the development of modern social institutions with especial reference to the family and the problems of marriage and divorce. The problems of pauperism and crime, with the methods and principles of modern relief policies, are taken up. Institutions in Philadelphia for the betterment of the dependent and neglected classes are visited by students. The course is conducted by means of lectures, text-books, collateral reading, and reports.

Professor Barrett; 3 hours, second half-year.

GOVERNMENT

Government I is required of all Freshmen who have offered Physics as an entrance requirement. The other courses in government are elective for Juniors and Seniors.

Ia. *Constitutional Government.* This course affords a general survey of the political and constitutional phases of government. Emphasis is laid upon the elementary principles of political science and upon the actual working of the governments of the United States and England. The course is conducted by means of text-book, informal lectures, and collateral reading.

Professor Barrett; 3 hours, first half-year.

IIa. *Expenditure and Revenue.* A description of the mode of expending and collecting the revenues of the national and state governments. The functions of government are briefly set forth and expenditures are classified. The mode in which expenditures are made by the different

departments of the national government is then discussed, followed by a description of the bills appropriating money. The different kinds of taxes are next considered, the principles on which the laws of taxation are based, and the modes of administering these taxes. The expenditures and revenues of the state are treated in the same manner.

Dr. Bolles; 3 hours, first half-year.

[Not given in 1912-13.]

IIIa. *Blackstone*. This course is intended to meet the admission requirements of the law schools in this subject. The class work consists of quizzes and explanations of the more difficult and important parts of the work.

Dr. Bolles; 3 hours, first half-year.

BIBLICAL LITERATURE

Except Course V, all courses in Biblical Literature are conducted by lectures and by readings in English. Course I is required of all Freshmen; Course II of all Sophomores; Courses III and IV (given in alternate years) and Course V, are elective for Juniors and Seniors.

I. *Religion of the Old Testament*. After preliminary outlines of the history and of the literature of the Hebrews, a survey is made of the successive stages of their religious development.

H. J. Cadbury; 1 hour.

II. *Life and Times of Paul*. The general conditions of New Testament times are reviewed and the life and work of Paul is studied on the basis of his letters and the *Acts of the Apostles* with some consideration of his personality and religious beliefs.

H. J. Cadbury; 1 hour.

III. *Introduction to the New Testament.* The history of the canon, text, and English translation of the New Testament with the study of the origin of the several books (date, authorship, and related questions of "introduction").

H. J. Cadbury; 3 hours.

IV. *Introduction to the Old Testament.* Origin and history of the Old Testament as a whole and of its several parts.

H. J. Cadbury; 3 hours.

[Not given in 1912-13.]

V. *Greek New Testament.* Translation and explanation of the Greek text of books selected from the New Testament (or other Christian and Jewish writings) with lectures, readings, and investigations on related historical, literary, and linguistic subjects. The work of this course is so varied from year to year that it may be elected in several half-years.

H. J. Cadbury; 3 hours, half-year.

(For other related courses see also Philosophy II and III.)

PHILOSOPHY

Courses Va and Vb are required of all Seniors. Course Ib is required of all Juniors in the Arts and General Science Courses. All other courses are electives for Juniors and Seniors.

Ib. *Psychology.* A course in general psychology. James, *Psychology* (briefer course), is used as a text-book, supplemented by lectures. A short series of lectures is also given on logic.

Professor Jones; 3 hours, second half-year.

IIa. *Interpretation of the New Testament.* This course is devoted to a search for the original message of Christianity as expressed by the writers of the Gospels and Epistles. It consists of lectures, assigned reading, and theses. The work is done in English.

Professor Jones; 3 hours, first half-year.

IIIb. *Development of Christian Thought.* An examination of the great types of religious thought which have prevailed at different epochs in the history of the Church, such as the Alexandrian conception of Christianity, the Augustinian, the Calvinistic, and the Quaker conception. Lectures, assigned reading, and theses.

Professor Jones; 3 hours, second half-year.

IV. *History of Philosophy.* The chief systems of philosophy from the earliest period down to modern times. The development of theories of idealism receives special attention. The text-books required are Weber, *History of Philosophy*, and Royce, *The Spirit of Modern Philosophy*. Lectures, collateral reading, discussions, and theses.

Professor Jones; 3 hours.

Va. *Ethics.* The important ethical theories are studied historically with the purpose of discovering a satisfactory criterion or basis of moral action. Each student is expected to write two theses. The first thesis will be an exposition of some one representative ethical system, as developed in the following books: Muirhead, *Elements of Ethics*; Spencer, *Data of Ethics*; Dewey and Tufts, *Manual of Ethics*; Green, *Prolegomena to Ethics*. The second thesis will deal with a definite ethical problem.

Professor Jones; 3 hours, first half-year.

Vb. *Ethics*. In this course are considered current problems of practical ethics.

President Sharpless; 3 hours, second half-year.

VI. *Religious and Philosophical Movements*. This course is for advanced students and honor men only, and is conducted on the seminar method. Different epochs are studied from year to year. Professor Jones; 2 hours.

ASTRONOMY

The Haverford Observatory affords students the means of becoming familiar with the use of astronomical instruments, and of acquiring, from actual observation, a practical acquaintance with astronomy.

It contains two equatorial telescopes, one by Clark, with an object-glass 10 inches in diameter, with filar micrometer and eyepieces; and one with an object-glass $8\frac{1}{4}$ inches in diameter by Fitz; a Newtonian reflector with a silver-on-glass speculum $8\frac{1}{4}$ inches in diameter; a Grubb prismatic spectroscope; a meridian circle of $3\frac{3}{4}$ inch aperture; a combined transit and zenith telescope of $1\frac{3}{4}$ inch aperture; two sextants; a mean time and a sidereal time clock, both being electrically connected with a chronograph by Bond.

The latitude of the Observatory is $40^{\circ} 0' 40.1''$ north; its longitude, 5 h. 1 m. 14.5 sec. west of Greenwich.

Ia. *Elementary Astronomy*. This course is mainly descriptive. It sets forth the leading facts of astronomy and gives an elementary explanation of the methods by which they are ascertained. Lectures and recitations. Moulton, *Introduction to Astronomy*.

Professor Wilson; 3 hours, first half-year.

Iib. Elements of Practical Astronomy. A study of the sextant, transit, and equatorial; practice in determination of instrumental constants, latitude, and time. The course is opened with a brief review of the essentials of spherical trigonometry. Campbell, *Practical Astronomy*, with use of the *American Ephemeris*. Prerequisite, Astronomy Ia. Lectures and observatory work.

Professor Wilson; 3 hours, second half-year.

BIOLOGY

The Biological Laboratory is amply equipped with microscopes, reagents, and all other necessary apparatus and appliances. It also contains several hundred biological works and zoölogical, anatomical, and botanical charts.

The courses of the department are suitable for students intending to study medicine.

Course I is required of all Freshmen during the first half-year.

Courses II to IX are elective, but Courses III to VI, inclusive, must be preceded by Course II.

Ia. Elementary Physiology and Hygiene. This course is preparatory to the general physical training required by the College, and includes general physiology, hygiene, a brief review of human anatomy, and lectures on first aid to the injured.

Professor Babbitt; 1 hour, first half-year.

II. Elementary Biology. The lectures of this course are devoted to a discussion of the fundamental principles of the structure and life-processes of animals and plants,

and also to some of the more important questions relating to their origin and evolution. The laboratory periods are devoted to the practical study and discussion of typical representatives of some of the greater groups of animals and plants. Many field excursions are taken in order to study animals and plants in their natural environment.

Professor Pratt; 4 hours.

III. *Comparative Anatomy of Vertebrates.* The laboratory work of this course includes the dissection and study of a cartilaginous and a bony fish, an amphibian, a reptile, a bird, and a mammal. One general lecture and two laboratory periods a week.

Professor Pratt; 3 hours.

IV. *Morphology of Invertebrates.* This course is intended for those who may wish to make a more extended study of invertebrates than is possible in Course II.

Professor Pratt; 3 hours.

V. *Embryology of Vertebrates.* The laboratory work in this course is devoted to the study of the embryology of the chick, the frog, and the pig. One general lecture and two laboratory periods a week.

Professor Pratt; 3 hours.

VI. *General Botany.* The laboratory work of this course consists of the dissection and study of typical representatives of the principal groups of plants. One lecture or recitation and two laboratory periods a week.

Professor Pratt; 3 hours.

VII. *Biological Theories.* This course will consist of lectures, text-book studies, and readings on the most important current biological theories. These will include the theories of life and the living substances; of the generation and maintenance of living things; of heredity and evolution.

Professor Pratt; 3 hours.

VIIIa. *Human Anatomy.* A course in general and applied anatomy, appropriate as preparation for medical and legal students, for prospective teachers in physical training and for broader education on the structure of the body. This half year covers osteology, syndesmology, and the muscular system with its related nervous structures. A skeleton, disarticulated skull and complete set of individual bones, with manikin and charts, are provided for study, and the course is supplemented by visits to various museums in the city.

Professor Babbitt; 3 hours, first half-year

VIIIb. *Human Anatomy.* This course continues Course VIIIa and covers the thorax and abdomen, the reproductive organs, the brain and central nervous system, and the special sense organs. The equipment includes enlarged models of eye, ear, throat, and heart, and preserved preparations of the brain and other organs. The course is supplemented by visits to medical clinics, Blockley Hospital, and dissecting rooms in Philadelphia.

Professor Babbitt; 3 hours, second half-year.

NOTE.—Courses VIIIa and VIIIb, while continuous, are distinct and either one or both may precede or follow Courses IXa or IXb.

IXa. *Advanced and Applied Physiology.* A course in general advanced physiology with special study of blood, digestive secretions and excretions, the vasomotor system, and physiology of reproduction. At least one period of each week will be devoted to laboratory examination and experimentation, including blood examination and count, blood pressure, artificial digestion and stomach analysis, muscle tracings, etc. One visit will be made to the Pepper Laboratory.

Professor Babbitt; 3 hours, first half-year.

IXb. *Bacteriology and Hygiene.* A course in general bacteriological study of the more common parasitic bacteria with appropriate apparatus for their culture and analysis; sanitation and municipal hygiene; history of epidemics and world plagues; climatological variations in their national and local aspects. Visits are made to public laboratories of hygiene.

Professor Babbitt; 3 hours, second half-year.

CHEMISTRY

The chemical laboratory affords ample facilities for the prosecution of elementary or advanced work. The professor and his assistants are in constant attendance. The laboratory work comprises elementary experiments in general chemistry; the preparation of a number of pure compounds; qualitative and quantitative analysis; and experimental work illustrating chemical laws and theories. Chemistry I or Mathematics II is required of all Sophomores in the Arts and General Science Courses, and Chemistry I is required of all Juniors in the Courses in Engineering.

I. *Elementary General Chemistry.* In this course students will ordinarily have two lectures or recitations and two laboratory periods a week. The preparation, properties, and uses of the more important elements and inorganic compounds are discussed in the lectures and are illustrated by experiments. In the laboratory the time is given mainly to the preparation and study of the non-metallic elements and a few of their compounds.

Professor Hall; 4 hours.

II. *Qualitative Analysis.* The exercises are mainly practical, but there is, each week, at least one lecture or examination. Although the instruction is devoted chiefly to the methods of qualitative analysis, it is expected that the student will increase materially his knowledge of general chemistry by following this course.

Professor Hall; 3 hours, or more by arrangement.

III. *Quantitative Analysis.* The simpler gravimetric and volumetric methods of analysis are studied. The calibration of flasks and burettes is also included.

Professor Hall; 3 hours, or more by arrangement.

IV. *Organic Chemistry.* This course consists of lectures, recitations, and laboratory work throughout the year. It will be found useful not only to those intending to become chemists, but also to students of biology and medicine.

Professor Hall; 3 hours.

V. *Advanced Quantitative Analysis.* This course is a continuation of Course III, but includes the analysis of silicates and other complex compounds, the examination of water, milk, butter, iron, steel, etc.

Professor Hall; 3 hours, or more by arrangement.

PHYSICS

The Department of Physics occupies six rooms in the west end of Founders Hall, well arranged both for laboratory work and for lectures. The apparatus has been carefully chosen to illustrate the principal phenomena dealt with in the lecture demonstrations of both elementary and advanced work. The installation of a new 24-inch induction coil and accessory apparatus has given the laboratory an excellent equipment for all sorts of X-ray work. The wireless telegraph station can receive messages from the commercial stations in Pennsylvania, New Jersey, Delaware, New York, and the government stations of the Navy, as well as communicate with neighboring stations.

The apparatus belonging to the electrical laboratory was selected to illustrate the modern application of electricity as well as its fundamental principles. This includes many types of generators and motors, both alternating and direct; a complete line of measuring instruments; arc and incandescent lamps; galvanometers, bridges, standards, etc. All the rooms are supplied throughout with both gas and electric light. The following currents are available: 20 volt storage battery, 110 volt direct, 110 and 200 volt 60 cycle three phase alternating, and, by means of transformers, other voltages and phase relations.

Course A is required of all Freshmen not presenting Physics at entrance.

Course I is elective in the Sophomore year with either Biology II, or Greek A, or History II and Economics I.

Courses II and IV are usually given in alternate years,

as are also III and V, and all are open as electives to those who have taken Course I.

Courses VI and VII are open as electives to those who have satisfactorily completed the prerequisites. These courses are given every year.

Aa. Elementary Physics. The work is intended to cover the ground of a good high school course. The student is made familiar with natural laws and their applications to daily life, and receives sufficient preparation to enable him to pursue the subject further. The recitations and lectures are accompanied by numerous experimental demonstrations. There is no laboratory work. The textbook is Mann and Twiss, *Physics*.

Professor Palmer; 3 hours, first half-year.

I. General Physics. This course is open to those who have passed the entrance examination or Physics A. Mechanics, sound, heat, light, magnetism, and electricity are taken up and treated in detail. A feature of this course is the laboratory work, the chief aim of which is accuracy of observation and of measurement. At least one period each week is spent in the laboratory. The textbooks are Crew, *General Physics*, and Ames and Bliss, *Manual of Experiments in Physics*.

Professor Palmer; 4 hours.

IIa. Electrical Measurements. The laboratory work of this course supplements that of Physics I in magnetism and electricity, and consists of fundamental experiments in the measurement of magnetic hysteresis, currents, resistances, electromotive forces, capacity, and induct-

ance. The lectures are devoted chiefly to the description and explanation of phenomena met with in the laboratory. The text-book is Hadley, *Magnetism and Electricity for Students*.

Professor Palmer; 3 hours, first half-year.
[Not given in 1912-13.]

IIIb. *Molecular Physics*. A study of vacuum tube phenomena, cathode rays, Roentgen rays, and radioactivity is followed by an introduction to the theory of ionization, and to the corpuscular theory of matter. The lectures are accompanied by many interesting demonstrations. There is no laboratory work. The books of J. J. Thompson, Rutherford, and Fournier are used for reference.

Professor Palmer; 3 hours, second half-year.
[Not given in 1912-13.]

IVa. *Wireless Telegraphy*. In this course a brief study of mutual inductance, self-inductance, and capacity leads to a discussion of electric waves, their properties and measurement. Finally the application of these subjects is made to wireless telegraphy, and the student is given an opportunity to apply his knowledge both in sending and receiving messages at the department wireless station. A small amount of laboratory work may be required. The text-book is Pierce, *Principles of Wireless Telegraphy*.

Professor Palmer; 3 hours, first half-year.

Vb. *Light*. In this course a brief study is made of fundamental phenomena of light. A small amount of laboratory work is required, including the determination of indices of refraction, the measurement of wave-length

and of spectra, and the observation of certain phenomena of diffraction and of polarization. Preston, *Theory of Light*, and Wood, *Physical Optics*, are used for reference.

Professor Palmer; 3 hours, second half-year.

VI. *Electrical Engineering*. This course includes a general survey of electrical science with its applications. A knowledge of electricity, such as would be obtained in Physics I, is required. The instruction is carried on by text-book, lectures, and laboratory work. It includes a study of instruments, generators, motors, transformers, arc and incandescent lamps, heaters, welders, etc. The practical phases of the subject, such as wiring buildings, testing apparatus, etc., are taken up as far as time permits.

Professor Rittenhouse; 3 hours.

VII. *Electrical Engineering*. This course follows Course VI. At least one period a week is spent in the laboratory. The experiments include the calibration of measuring instruments; the absolute measurement of electrical and magnetic quantities; efficiency tests of generators, motors, and transformers; construction of characteristic curves, etc. Electrical apparatus is studied in more detail than in Course VI. Considerable time is devoted to alternating currents, and a series of graded problems are solved by both the analytic and graphic methods. The modern applications are studied and illustrated by visits to the large power houses, substations, etc., in Philadelphia and vicinity.

Professor Rittenhouse; 3 hours, or more.

ENGINEERING

The engineering courses are designed to give a thorough training in fundamental engineering principles and, as far as practicable, to teach the application of these principles to the generation and utilization of power and to the construction of machines.

Exceptional facilities for observing the practical side of the work are offered by the many manufacturing companies in and near Philadelphia, and frequent inspection trips are taken.

The Engineering Department occupies Whitall Hall, a commodious stone building, three stories high. The equipment of the shop is modern and of the best quality. The woodworking room affords accommodation for fourteen students. The benches are provided with quick-action vises and a complete set of carpenter's tools for each student. This shop contains a 36" band saw and five wood-lathes. The iron-working room contains a 24" x 12' Blaisdel engine-lathe and three smaller engine-lathes; a 24" x 24" x 6' planer, a Becker-Brainard universal milling-machine, a Gould and Eberhardt 16" shaper, two drill-presses, several vises and complete sets of machinist's tools for bench-work, pipe-fitting, etc. Steam-engine indicators, weighing-scales, standard pressure-gauges, calorimeters and electrical measuring-instruments, in connection with the central heating and lighting plant, afford good opportunity for the testing of boiler, engine, and dynamo. A 30,000-pound Riehlé screw testing-machine, gives opportunity for testing materials and for investigating the laws of stress and strain. The third story of the building is devoted to drawing; it is a large and well-lighted room, where thirty students

may be accommodated at one time. The equipment includes a number of pieces for study and sketching, such as steam and air pumps, safety-valves, shaft-hangers.

A description of the mechanical courses is given below. For the corresponding electrical courses see Physics VI and VII.

All of these courses are open as electives to those who have satisfactorily completed the prerequisites.

Special courses may be arranged to suit the needs of those students intending to continue their engineering studies at other institutions.

Ib. Steam Engineering. A study of the action of steam and gas engines, condensers, air-compressors, steam-boilers, etc. Horse-power tests are made and efficiencies studied. The thermo-dynamic principles involved are considered in the latter half of the course. Hydraulics, refrigeration, heating, and ventilation are taken up as far as time permits. This course consists of four recitations or lectures and one draughting-room period per week.

Professor Rittenhouse; 5 hours, second half-year.

Iib. Elements of Mechanism. A study of the mechanical movements employed in machinery; various methods of transmitting and transforming motion; a detailed study of the teeth of wheels. This course includes lectures, a series of problems in invention to be solved by the student, and at least one draughting-room period a week.

Professor Rittenhouse and O. M. Chase; 3 hours, second half-year.

III. Practical Mechanics. Students in this course ordinarily spend at least five hours a week for two years in the shop and have the privilege of electing extra hours

after the completion of the regular course, if the facilities of the shop permit. The course begins with simple exercises in wood-working, including sawing and planing, and progresses through graded exercises in joinery of all kinds, turning, and pattern-making, unless the student has previously had practice in wood-working. One half year is usually spent in this subject.

Iron-work is taken up next. Bench-work in filing, chipping, and scraping occupies a half-year. Another half-year is occupied with pipe-fitting, forging, welding, and annealing. Each student is required to make a set of tools to be used in the machine-shop.

The remaining time is devoted to the use of the various machine tools in executing a series of graded exercises.

The grades in this course are based upon the faithfulness of the student in his work, his promptness, and his care of tools, as well as upon the accuracy of his work and the amount of time occupied on each exercise.

Professor Rittenhouse and G. W. Weaver; 2 hours, or more by arrangement.

IV. *Mechanical Drawing and Machine Design.* The first exercises are designed to give facility in the use of instruments. These are followed by the elementary projection of solids and complicated intersections, a short course in descriptive geometry, and the exact and the conventional representation of threads, bolts, and nuts.

Sketching and dimensioning from models are next taken up and, during the Sophomore year, simple working drawings are made from these sketches. Spur and bevel gear-wheels, screw and other gearing, quick return motions, and the various transmission gears are taken up and designed in connection with the course in mechanism.

A number of practical problems in valve-gears, involving the plane slide valve, piston-valve, Corliss-valve, shifting eccentrics, link motions, etc., are solved by each student. The course concludes with the design of a steam or gas engine and complete detail drawings of all working parts, or the equivalent.

O. M. Chase and Professor Rittenhouse; 2 hours, or more by arrangement.

Va. Mechanics of Materials. A study of the materials employed in engineering constructions, including the manufacture and properties of iron in all its commercial forms; the making of alloys; the strength, elasticity, and ductility of metals; the strength of timbers, shafting, girders, trusses, etc.

A series of tests on the screw testing-machine is made by each student.

Professor Rittenhouse; 3 hours, first half-year.

Vb. Structural Design. A continuation of Course *Va*. Stresses in structures are calculated graphically and analytically. The design or analysis of a complete roof or bridge truss is included in the course.

Professor Rittenhouse; 3 hours, second half-year.

PHYSICAL TRAINING

The Gymnasium contains a main floor, sixty by ninety feet, abundantly equipped with the most improved appliances for American and Swedish gymnastics. It has an inclined running track, five feet in width. Adjoining the main floor are offices for the use of the director in physical examination and measurement. These rooms may be further utilized for special work by students taking advanced courses in anatomy and physiology, preparatory

to medicine, and by those electing normal courses in physical training. Adjoining the main hall is a large and comfortable reading-room. Above are a trophy room and apartments for the use of the alumni.

The basement contains dressing-rooms, a number of well-ventilated lockers, shower-baths, a swimming-pool, and a double bowling-alley. There is a special dressing-room provided for the faculty and visiting athletic teams.

A thorough physical examination is given to all students upon entrance, and another at the end of the Sophomore year. No student whose physical condition is unsatisfactory will be permitted to represent the College on any athletic team.

The work of the department begins with Biology I, a course of lectures upon anatomy, physiology, and hygiene, given to the Freshman class during the first half of the college year. During the second and third quarters systematic gymnastic drill is given three times a week. Each student, after proper tests and physical examination, is assigned to one of the following lines of work:

I. A course in elementary gymnastic drill, with moderate apparatus work.

II. A general course in light and heavy gymnastic work of regular collegiate type.

III. Regular practice with the candidates for the College gymnastic team, for entrance to which gymnastic ability and physical qualifications are requisite.

Similar gymnastic work, with collateral study of the theory of physical education, is required during the Sophomore year. Work in the gymnasium is elective for Juniors and Seniors.

THE LIBRARY

The College Library now contains about fifty-seven thousand volumes, besides numerous pamphlets. It has been selected and arranged with the object of making it especially useful as a library of reference. The students have free access to the shelves and the Librarian and his assistants are ready to give aid to students and readers.

About two thousand dollars are expended yearly for the purchase of books and periodicals. The library is a regular depository of the United States Government.

The William H. Jenks Collection of Friends' Tracts of the seventeenth century numbers fourteen hundred separately bound titles.

The Library possesses the fine Harris Collection of over sixty Hebrew, Greek, Latin, Arabic, Syriac, and Ethiopic manuscripts collected by Dr. J. Rendel Harris. Besides these there is a collection of facsimiles of ancient documents, including photographic facsimilies of the four great manuscripts of the New Testament and of the recently discovered Odes of Solomon.

There is a collection of more than four hundred Babylonian clay tablets dating from B. C. 2500. There are also seven hundred reproductions in fictile ivory of ancient and medieval carved ivories.

Approximately one hundred and seventy-five literary and scientific periodicals are taken.

The Library is open, with some exceptions, on weekdays from 8.30 a. m. to 10 p. m. While designed especially for the use of the officers and students, others have the privilege of consulting and, under certain restrictions, of withdrawing books.

THE CHARLES ROBERTS AUTOGRAPH COLLECTION

This autograph collection, formed by the late Charles Roberts, of Philadelphia, a graduate (1864) and for many years a Manager of the College, was in 1902 presented to the College by his wife, Lucy B. Roberts. It consists of more than 11,000 items, embracing not only autograph letters of European and American authors, statesmen, scientists, ecclesiastics, monarchs, and others, but also several series of valuable papers. The whole collection, covering as it does the period beginning with the late fifteenth century and coming down to the present day, is one of unusual historical and literary interest.

It has been housed in a fireproof room and a careful card catalogue prepared. The collection is open for inspection or research on application to the curator, Allen C. Thomas.

GRADING OF STUDENTS

The grades attained by students in their college courses are indicated on reports, issued quarterly, by the five letters, A, B, C, D, E. A indicates a grade from 90 to 100, inclusive; B from 80, inclusive, to 90; C from 65, inclusive, to 80; D from 50, inclusive, to 65; and E indicates a failure. The numerical grades are not published. No student is permitted to graduate if his combined average for the Junior and Senior years is below C. Daily recitations, hour examinations, and final examinations are all employed in determining the standing of the student.

HONORS

Honors are awarded for excellence in the studies of single departments. They are never given merely for performance of routine work in courses, but a considerable amount of extra work is demanded in every case.

Honors are of three kinds:

(a) *Honorable Mention*, to be awarded for work in a single course, meeting not less than two hours per week throughout the year, plus additional work to the total amount of not less than 75 hours. Candidates for Honorable Mention must obtain the grade of A in the regular work of the course and pass creditably an examination on the additional work required. Two courses in the same department, taken in successive half-years, may be construed as a single course.

(b) *Preliminary Honors*, to be awarded at the end of either Sophomore, Junior, or Senior year for not less than two years' work, amounting to six hours a week in the courses of a single department, plus additional work to the total amount of not less than 150 hours.

Candidates for Preliminary Honors must obtain a grade of at least B in all courses required for such honors (see below), and a grade of A in such of these courses as are taken in the year in which they are candidates, and must pass creditably examinations on the additional work required.

(c) *Final Honors*, to be awarded upon graduation for work in the courses of a single department, plus additional work to the total amount of not less than 250 hours.

Candidates for Final Honors must take courses amount-

ing to at least ten hours in the department in which they apply for honors, at least six of these hours being in the Junior and Senior years. They must in all of these courses obtain a grade of at least B and in those taken in the Senior year a grade of A, and must pass creditably examinations on the additional work required. There are three grades of Final Honors: Honors, High Honors, and Highest Honors. The requirements for High Honors are of a more exacting nature than those for Honors, and Highest Honors are reserved for very exceptional cases. Both High Honors and Highest Honors are awarded only by special vote of the Faculty.

Students entering with advanced standing may offer work done elsewhere towards satisfying the requirements for Preliminary or Final Honors.

A student who has received the prescribed grade in the regular work of a course required for honors, but who has not done the additional work required in connection with such course, may, with the consent of the professor in charge, make up this deficiency in a later year, but in the case of Final Honors all such deficiencies must be made up by the end of the Junior year.

The minimum requirements in courses for Preliminary Honors (if offered) and for Final Honors are specified on the next page.

COURSES REQUIRED FOR PRELIMINARY AND FINAL HONORS

PRELIMINARY HONORS		FINAL HONORS
Greek	I, II.	I, II, III, IV, V.
Latin	I, II.	I, II, III, IV, V.
English	None given.	I, II, III, IV, and courses amounting to six hours from V, VIII, IX, X, XI, XII, XIII.
German	I, II.	I, II, III, V, VI.
French	I, II.	I, II, III, IV, V.
Romance Languages	} None given.	{ French I, II, III, IV, V, and Honorable Mention in Spanish I and Italian I.
Mathematics		
History	I, II, and III or IV.	I, II, and three of the four courses: III, IV, V, VI.
Economics	None given.	I, II, III, IV, V, VI, VII.
Philosophy	None given.	I, II, III, IV, V, VI.
Biology	II and III or V.	II, III, IV, V, VIII, IX.
Chemistry	I, II.	I, II, III, IV.
Physics	I, II and III, or IV and V, or VI.	I, and courses amounting to nine hours from II, III, IV, V, VI, VII.
Engineering	None given.	Physics VI, Engineering I, II, V.

DEFICIENT STUDENTS

Opportunities for the removal of entrance conditions will be given at the regular entrance examinations in June and September and at a special examination in January.

Opportunities for the removal of first half-year conditions will be given in April and September.

Opportunities for the removal of second half-year conditions will be given in September and January.

Conditions should be removed at the first regular re-examination period after failure; if not then removed, a fee of five dollars will be charged against the student at the next regular re-examination period, whether or not the make-up examination is actually taken.

A student who has failed to remove a condition after two opportunities, or who has taken absences exceeding two-fifths of the total number of recitations and lectures in a given course, shall repeat the course and may be registered with the next lower class. In case of conflict the repeated course shall take precedence over all other courses.

DEGREES

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

Students who have received credit for the full number of hours in prescribed and elective studies as required for the Course in Arts or for one of the Courses in Science (compare pages 39-42), provided also that they have attained for the Junior and Senior years a combined average of C or above, are granted respectively the degree of Bachelor of Arts or Bachelor of Science. The fee for the Bachelor's diploma is ten dollars.

MASTER OF ARTS AND MASTER OF SCIENCE

Resident graduates who have received the Bachelor's degree from Haverford College, or graduates of other colleges who, in the judgment of the Faculty, have done work equivalent to that required for the Bachelor's degree at Haverford, may be admitted as candidates for the degree of Master of Arts or Master of Science. Such students must submit for the approval of their instructors and the Faculty Committee on Advanced Degrees a plan of study involving the equivalent of twelve hours a week in advanced courses.

Non-resident graduates of Haverford College of three years' standing or more may also be admitted to the Master's degree. They must however, at the beginning of their work, arrange with the committee a definite course of study and make annual reports during three years to the instructors in charge.

The candidate must pass an examination satisfactory to his instructors and to the Faculty Committee. At the option of the instructors, a thesis may be required. Previous to the examination the instructors in charge shall file with the committee a statement of the work done by the candidate.

The fee for the Master's diploma is twenty dollars. In the case of non-resident graduates an additional fee of ten dollars is required at the beginning of the course.

ROOMS

A student who continues in the College may retain the room he already occupies. The vacant rooms are assigned by lot, the upper classmen having first choice. Enter-

ing Freshmen may choose rooms in the order in which their application blanks for admission (see page 23) are received. For this choice a day is appointed, of which due notice is given in advance. Ten of the \$400 rooms are regularly reserved as a part of the apportionment for Freshmen.

A deposit of \$15 is required of all students, old and new, before a room will be reserved. In case the student occupies the room, the amount will be deducted from his bill for the following year; otherwise, it will be forfeited.

EXPENSES

The combined charge for tuition, board, and room-rent varies with the location of the rooms from \$400 to \$575 a year. This includes steam heat, electric light, the use of necessary bed-room furniture, and care of rooms. Students will supply their own study furniture. In general two students share one study and each has his private bed-room adjoining. A few single rooms are also available. The number of students accommodated in the different halls is as follows:

Merion Hall,	21 at \$400 each,
Merion Hall,	16 at \$450 each,
Founders Hall,	8 at \$400 each,
Barclay Hall,	16 at \$400 each,
Barclay Hall,	31 at \$450 each,
Barclay Hall,	46 at \$500 each,
Lloyd Hall,	16 at \$575 each.

The charge for tuition of day-students is one hundred and fifty dollars a year; for tuition and mid-day meal, two hundred dollars a year.

Books and stationery will, at the option of the student, be supplied by the College and charged on the half-yearly bills. A charge is also made for materials consumed and breakage in the laboratories.

Bills for board and tuition are payable, three-fifths at the beginning, and two-fifths at the middle, of the college year.

SCHOLARSHIPS

I. *Senior Foundation Scholarships.* Six scholarships of the annual value of \$300 each offered to graduates of Earlham, Penn, Wilmington, Guilford, and Whittier Colleges and Friends' University, nominated by their respective Faculties.

II. *Isaiah V. Williamson Scholarships.* Three scholarships covering all expenses of board and tuition.

III. *Richard T. Jones Scholarship.* One scholarship covering all expenses of board and tuition.

(II and III are so arranged that one is usually vacated each year and awarded to a Freshman.)

IV. *Corporation Scholarships.* Sixteen scholarships of the annual value of \$300 each, awarded without application to the four students in each class who have the highest average scholarship. This is determined in the case of upper classmen from their general average for the year. In the case of the incoming Freshman class the scholarships will be assigned immediately after the Sixth month examinations (see page 26) to those candidates entering by either plan of admission who are judged to be best prepared to do the work of the College.

V. *Edward Yarnall Scholarship.* One scholarship of the annual value of \$200. Open to Friends only.

VI. *Thomas P. Cope Scholarship*. One scholarship of the annual value of \$200. Open only to Friends who intend to teach.

VII. *Sarah Marshall Scholarship*. One scholarship of the annual value of \$200.

VIII. *Mary M. Johnson Scholarship*. One scholarship of the annual value of \$200.

IX. *Day Scholarships*. Eight scholarships of the annual value of \$100 each.

X. *Tuition Scholarships*. Twenty-four scholarships of the annual value of \$150 each.

XI. *Alfred Smith Scholarship*. One scholarship given on competitive examination to a candidate for the Freshman class who is of German-American parentage and whose ancestors came to this country prior to the year 1800. The annual value is \$400. It may be held for two or more years if the work of the recipient is satisfactory, and may also be followed by a fellowship of \$400 for one year in Harvard University.

XII. *Joseph E. Gillingham Scholarship*. Four scholarships of the annual value of \$200 each "for meritorious students."

All scholarships are given for one year only, but, with the exception of I, they may be renewed by the College if the conduct and standing of the recipient be satisfactory.

The Senior Foundation Scholarships will thus be vacated yearly, and about one-fourth of the others.

Except IX, all scholarships involve residence at the College.

FELLOWSHIPS

The Clementine Cope Fellowship, of the annual value of \$500, may be awarded by the Faculty to the best qualified applicant from the Senior class. He is required to spend the succeeding year in study at some American or foreign university approved by the Faculty.

Teaching Fellowships.—Two fellowships of \$300 each, involving certain duties at Haverford College, are offered yearly on the same foundation. They are construed to cover all the charges for tuition, rooms, and board.

PRIZES

ALUMNI PRIZE FOR COMPOSITION AND ORATORY

The Association of the Alumni, in the year 1875, established an annual prize of \$50, either a gold medal or an equivalent value in books and bronze medal, for excellence in composition and oratory.

The following are the rules governing the competition:

I. The Alumni medal is offered yearly for competition amongst the members of the Junior and Senior classes, as a prize for the best delivered oration prepared therefor.

II. Three or five judges shall be appointed from year to year by the Alumni Committee, who shall hear publicly, in Roberts Hall, all competitors who may be qualified to appear.

III. No oration shall occupy in delivery more than fifteen minutes.

IV. In making the award equal weight is to be given to the literary merits of the oration and to the manner of delivery.

V. The judges shall have the right to withhold the prize if the literary merits and the manner of delivery of the oration fall below a creditable standard of excellence.

THE EVERETT SOCIETY MEDAL

This silver medal is offered by the donor for competition in extemporaneous speaking by the members of the two lower classes. It is given in memory of the old Everett Society.

JOHN B. GARRETT PRIZES FOR SYSTEMATIC READING

Four prizes, worth \$40, \$30, \$20, and \$10, respectively, will be given in books to those members of the Junior class who, having creditably pursued their regular studies and paid proper attention to physical culture, shall have carried on the most profitable course of reading in standard authors during the Sophomore and Junior years.

The direction of the work and the award of the prizes shall be in the hands of a committee consisting of the President, the Librarian, and the Professor of English Literature.

There will be an oral examination to determine the scope and quality of the reading, and a thesis treating of subjects embraced in the course will be required.

Any or all of these prizes may be omitted if, in the judgment of the committee, the work does not justify an award.

THE CLASS OF 1896 PRIZES IN LATIN AND MATHEMATICS

These are two prizes worth \$10 each. They will be awarded in books at the end of the Sophomore year for proficiency in Latin and Mathematics, respectively.

THE CLASS OF 1898 PRIZE IN CHEMISTRY

The Class of 1898 offers a prize of \$10 in books to the member of either the Junior or Senior class who, in the judgment of the Professor of Chemistry, shall have done the most thorough and satisfactory work during the year in the laboratory, and in oral and written examinations.

The prize will not be awarded twice to the same student.

THE CLASS OF 1902 PRIZE IN LATIN

The Class of 1902 offers a prize of \$10 in books to the Freshman whose work in Latin, in recitations and examinations combined, shall be the most satisfactory to the professor in charge of the department.

THE MATHEMATICAL DEPARTMENT PRIZE IN
MATHEMATICS

The Mathematical Department offers a prize of \$10 in books, to be awarded at the end of the Freshman year, to the most proficient student in Mathematics.

THE ELLISTON P. MORRIS PRIZE

A prize of \$80, open to all undergraduates and to graduates of not more than three years standing, is offered in alternate years for the best essay bearing on the

general problem of "international peace and the means of securing it." The next award will be made in the Fifth month of 1912, and will be announced at Commencement. Any or all of the papers may be rejected if a high standard of merit is not reached. Competitors are urged to avoid mere discussion and fine writing, and to seek the advancement of knowledge by a study of facts or a proposal of practical advantage. The essays of 1912 shall be written on one of the following subjects:

1. The grounds for believing that the Hague Conference will become a substitute for war.
2. The ethical grounds for opposition to war.
3. Will the economic burden of war, and of national armaments in time of peace, force the nations of the world to adopt peaceful methods of settling disputes?

PRIZES IN PHILOSOPHY AND BIBLICAL LITERATURE

A prize of \$40 in books will be given each year to the student who, in the judgment of the professor in charge, does the most satisfactory amount of outside reading in philosophy in connection with the courses in that department. A second prize of \$25 will also be given. The prizes in philosophy are open only to Seniors and Juniors.

A prize of \$40 in books will be given each year to the student who, in the judgment of the professor in charge, does the most satisfactory amount of outside reading in connection with the courses in Biblical Literature. A second prize of \$25 will also be given. The prizes in Biblical Literature can be competed for during any year of the College course.

SOCIETIES

The Loganian Society, the oldest in the College, was founded in 1834, "for mutual improvement in Literature and Science." In 1906, when it was reorganized, its interests had extended so as to necessitate three departments—Civic, Scientific, and Debating. In 1908 the Civic Department withdrew to organize the Civic Club, and in 1909 the Scientific Department withdrew to reorganize the Scientific Society. The Loganian Society proper thus exists only as a debating club, and as such has control of the inter-class debates.

The Classical Club is composed of members of the Faculty, students, alumni, and others, who are interested in the life and literature of the Greeks and Romans.

A branch of the Young Men's Christian Association, organized in 1879, has a membership embracing a majority of the students.

A chapter of the Phi Beta Kappa Society, Zeta of Pennsylvania, was established at the College in 1898.

The Campus Club is an organization of the Faculty, students, and other friends of the College for promoting the study and preservation of trees, shrubs, birds, and wild animals on the College property.

The Haverford Union is an organization of alumni and students for the promotion of social fellowship. The home of the Union is a large and attractive building supplied with reading rooms, recreation rooms, sleeping rooms for visiting alumni, and a large assembly hall.

PERIODICALS

Haverford College Bulletin is issued by the College eight times in each collegiate year. Included under this title are the College Reports, Catalogue, Athletic Annual, and other matter.

The Haverfordian, founded in 1879, is published monthly by the students during the college year.

College Weekly, founded in 1909, is published weekly by the students during the college year.

LECTURESHIPS

HAVERFORD LIBRARY LECTURES

The income of \$10,000, received in 1894 from the estate of Mary Farnum Brown, is available by the terms of the gift "to provide for an annual course or series of lectures before the Senior class of the College and other students, on the Bible, its history and literature, and as way may open for it, upon its doctrine and its teaching."

THOMAS SHIPLEY LECTURES ON ENGLISH LITERATURE

The sum of \$5,000, presented in 1904 by Samuel R. Shipley, in memory of his father, Thomas Shipley, constitutes the Thomas Shipley Fund. The income of this fund is ordinarily to be used "for lectures on English literature."

PUBLIC LECTURES AND MEETINGS
1910-11

HAVERFORD LIBRARY LECTURES

"Letter Writing and Travel in the First Century,"
by Sir William Mitchell Ramsay, D.C.L., LL.D., Pro-
fessor of Humanity in Aberdeen University.

10th mo. 25th, 1910.

"International Peace through International Justice,"
by Dr. Henry B. F. Macfarland, late Commissioner of
the District of Columbia.

1st mo. 17th, 1911.

"Loyalty and Insight," Professor Josiah Royce, of
Harvard University.

4th mo. 8th, 1911.

"Pillars of Monotheism," by Dr. G. A. Johnston Ross.
5th mo. 9th and 11th, 1911.

THOMAS SHIPLEY LECTURE ON ENGLISH LITERATURE

"Robert Burns in His Historical Relations," by Pro-
fessor William A. Neilson, of Harvard University.

3rd mo. 24th, 1911.

OTHER LECTURES

Lecture by Professor Dean P. Lockwood, of Columbia
University, under the auspices of the Classical Club.

1st mo. 20th, 1911.

"Flight" (The Development of the Art of Aviation from the Earliest Times to the Present Day), by George Atwell Richardson. Lecture delivered under the auspices of the Haverford College Aero Club.

10th mo. 13th, 1910.

"The Ethics of the Single Tax," by Frank W. Garrison. Lecture delivered under the auspices of the Civic Association.

3rd mo. 27th, 1911.

MISCELLANEOUS

Joint Recital under the auspices of the Haverford Union, by Mrs. A. G. H. Spiers and David Bispham, '76.

12th mo. 19th, 1910.

"Negro Song and Folklore," Reading and Recital, by Miss Lucine Finch.

2nd mo. 10th, 1911.

Joint Recital under the auspices of the Music Study Club, by Howard F. Rattay (violin) and John S. Thompson (piano).

5th mo. 2nd, 1911.

Meeting and Reception under the auspices of the Transatlantic Society of America.

5th mo. 27th, 1911.

Annual Contest of Oratory, between the Senior and Junior classes, for the Alumni Prize and Annual Contest in Extemporaneous Speaking, between the Sophomore and Freshman classes, for the Everett Medal.

5th mo. 17th, 1911.

The Twelfth Annual Meeting of the Friends' Educational Association. Addresses by Professor John Dewey, of Teachers' College, Columbia University, "Co-operation of Home and School," and Professor George Herbert Palmer, of Harvard University, "The Three Stages in the Life of a Teacher."

5th mo. 20th, 1911.

Commencement Day. Commencement Exercises in Roberts Hall, with address by Professor William Wistar Comfort, (A.B., Haverford, 1894), of Cornell University.

6th mo. 16th, 1911.

DECREES, PRIZES, AND HONORS
GRANTED IN 1910-11

DEGREES

The following degrees were conferred on Commencement Day, 6th mo. 16th, 1911:

Master of Arts

Joseph Cooper Birdsall, A.B. (Haverford College).

Thesis—"The Functions and Inter-relations of the Ductless Glands."

Henry Greer Cox, A.B. (Haverford College).

Thesis—"The Educational Problems of the United States in Porto Rico and the Philippines."

Walter Lewis Croll, A.B. (Haverford College).

Thesis—"A Review of the Methods for the Quantitative Determination of Fat in Milk, and an Investigation of the Accuracy of the Meigs Method with Modifications and New Apparatus."

James White Crowell, S.B. (Haverford College).

Thesis—"The Works of Molière."

Alfred Alexander Dixon, S.B. (Guilford College).

Thesis—"Ultra Violet Light of Extremely Short Wave Length and Some of Its Effects."

Levi Arnold Post, A.B. (Haverford College).

Subject—Latin.

J. Walter Tebbetts, S.B. (Earlham College).

Subject—Pure Mathematics.

James Whitall, A.B. (Haverford College).

Thesis—"Music and its Relation to Elizabethan Lyric Poetry."

Bachelor of Arts

James Ashbrook	Jesse Kersey Patrick
John Saeger Bradway	Levi Arnold Post
James Alexander Clarke, Jr.	Joseph Haines Price
Jefferson Hamer Clark, Jr.	David Duer Reynolds
Jacob Jarden Guenther	Victor Franz Schoepperle
Thomas Frederic Hadley	Lucius Rogers Shero
William Davis Hartshorne, Jr.	Ebenezer Hall Spencer
Richard Junius Mendenhall	Henry Bernard Stuccator
Hobbs	Howard Gardiner Taylor, Jr.
Le Roy Jones	Charles Wadsworth, 3rd
	* Caleb Winslow

Bachelor of Science

Daniel Burghard Boyer	David Scull Hinshaw
Philip Bernard Deane	Howard Franklin McKay
John Steele Downing	Eugene Ristine Spaulding
Benjamin Farquhar	Frederick Oscar Tostenson
Henry Ferris, Jr.	Alan Sedgwick Young
	Wilmer Job Young

FELLOWSHIPS AND SCHOLARSHIPS
FOR 1911-12

The Clementine Cope Fellowship

Levi Arnold Post

Teaching Fellowships

William Davis Hartshorne, Jr.
Caleb Winslow

HAVERFORD COLLEGE

Corporation Scholarships

Class of 1912

John Hollowell Parker
Mark Balderston

Joshua Longstreth Baily, Jr.
Irvin Corson Poley

Class of 1913

Joseph Moorhead Beatty, Jr.
Norris Folger Hall

George Montgomery
John Valentine Van Sickle

Class of 1914

Edward Rice, Jr.
Harry Offermann

Walter Gregory Bowerman
Percy Warren Moore

Class of 1915

George Hervey Hallett, Jr.
Felix Muskett Morley

Paul Craig Hendricks
Edgar Milton Bowman

PRIZES

The Alumni Prize in Composition and Oratory

Richard Junius Mendenhall Hobbs
Honorable Mention—Ebenezer Hall Spencer

The Everett Society Medal for Extemporaneous Speaking

George Montgomery

The John B. Garrett Prizes for Systematic Reading

First Prize Joshua Longstreth Baily, Jr.

The Second, Third, and Fourth Prizes were not awarded.

The Class of 1896 Prize in Latin

George Montgomery

The Class of 1896 Prize in Mathematics

Norris Folger Hall

The Class of 1898 Prize in Chemistry

Leslie Warren Ferris

The Class of 1902 Prize in Latin

Harry Offermann

Honorable Mention—Edward Rice, Jr.

The Mathematical Department Prize in Mathematics

Edward Rice, Jr.

Reading Prizes in Philosophy

First Prize.....Levi Arnold Post

Second Prize.....LeRoy Jones

Reading Prizes in Biblical Literature

First Prize.....Levi Arnold Post

Second Prize.....Charles Thompson Moon

HONORS

Seniors elected to the Phi Beta Kappa Society

Levi Arnold Post (elected in his Junior year)

Lucius Rogers Shero

Ebenezer Hall Spencer

Victor Franz Schoepperle

John Saeger Bradway

Juniors elected to the Phi Beta Kappa Society

John Hollowell Parker

Mark Balderston

General Honors

Levi Arnold Post

Lucius Rogers Shero

HONORS IN DEPARTMENTS

Final Honors

John Saeger Bradway.....	Latin
John Steele Downing.....	Chemistry
William Davis Hartshorne, Jr.....	Romance Languages
Levi Arnold Post.....	Greek; English
Lucius Rogers Shero.....	Greek; Latin
Alan Sedgwick Young.....	Economics

Preliminary Honors

Joshua Alban Cope.....	French
Frederick Augustus Curtis.....	French
Norris Folger Hall.....	Mathematics
George Montgomery.....	Greek; Latin
Levi Arnold Post.....	French

Honorable Mention

Walter Gregory Bowerman

Freshman Mathematics; German I

Daniel Burghard Boyer.....	Economics IV
John Saeger Bradway.....	Economics IV
Hans Froelicher, Jr.....	Economics I
George Montgomery.....	History II
Percy Warren Moore.....	Mathematics Ia' and Ib'

Harry Offermann	Greek I; Latin I
Irvin Corson Poley	French V
Levi Arnold Post	Italian I
Edward Rice, Jr.	Latin I; Freshman Mathematics
Samuel Emlen Stokes	Mathematics Ia' and Ib'
Henry Bernard Stuccator	Economics II
William Webb	History II

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Haverford College Bulletin

VOL X.

THIRD MONTH, 1912

No. 5

Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10, 1902, at Haverford, Pa.,
as Second Class Matter under Act of Congress of July 16, 1894

Since 1898 the College has added material equipment costing approximately as follows:

Lloyd Hall.....	\$16,000
Gymnasium.....	55,000
Library addition.....	20,000
Roberts Hall.....	60,000
Merion Hall (remodeled).....	20,000
Dining Hall.....	55,000
Power Plant.....	60,000
The Union.....	35,000
Chemical Laboratory.....	60,000
Infirmary.....	26,000
Farm buildings.....	16,000

Of this \$420,000 about \$170,000 has been supplied by general subscriptions; about \$120,000 represents the interests of individual alumni, and the remainder has been paid for largely by gifts supplemented by appropriations from the College treasury.

The above is partly an answer to the question as to why Haverford has not grown to be a larger college. When this movement started the whole plant was too small to do the work. All this money had to be spent, for the old buildings were adapted to a college of about one hundred students. Except for dormitories, we are now capable of caring for three times this number. It would have been easy to increase the dormitory accommodation, but the

standard of education and living would have suffered. It seemed wiser to prepare for the larger numbers an adequate equipment and allow the living rooms to follow. We are nearly through with this phase of our work. Another addition to the Library to cost about \$20,000 will supply all the educational demands absolutely pressing for some time to come. If we choose now to turn our attention to increasing the student body and the needed dormitories, we will have the assurance that no one will suffer for reasonable facilities in the way of education and wholesome living.

During the same time the productive endowment of the College has increased. In 1898 it was reported as \$714,929. If we would add one million to this it would not be far from representing the amount at the present time. A portion of this has come from the sale of land belonging to the Jacob P. Jones estate; a larger portion from donations and bequests handed in so quietly that even Haverfordians close to the management have hardly been aware of it. "To him that hath shall be given," and the undoubted permanency of Haverford College, and the fact that it stood for a type of education and character that men approve of, have made them feel that money invested there would bring returns that were worth while. These standards are still worth more to us than great numbers without them.

A smaller matter, one about large enough for a class or combination of classes to undertake, would be a new grand stand on Walton Field. Such stands are now usually made of cement and vary in size and complexity from the great one on the Harvard Field to the very modest, but durable structures at a great many colleges. Some investigation seems to indicate that about seven or eight dollars a seat is a fair estimate for the cost. It need not all be built at once, but sections could be added as required.

The College puts in operation next fall a modification of its plan for admission. Candidates hereafter may, instead of examinations in all subjects, present a complete record of their four years' school course, and in addition take three main examinations—one in English, one in Mathematics (advanced Algebra and Plane Geometry) and one in a foreign language. For Arts Students this foreign language will be Latin (Vergil and Cicero); for Science Students, French or German. These examinations must all be taken at one time, and the results will be considered in connection with the school record, as determining the question of the student's ability to do our work successfully.

This change has been made to meet two difficulties. One of these is the necessary crowding of the last years of the school course in order to prepare for the College examinations, a crowding which in the eyes of many teachers produces unfortunate educational results. The other is the condition which confronts a boy who does not decide to go to college, or does not decide on the college to which he will go, till his last year at school, a not inconsiderable number in the aggregate. Such boys have had before them the prospect of examinations on four years' work in a variety of subjects, some of which have been laid aside for two or three years. There are other advantages of the change and perhaps some disadvantages, but it is quite in line with the best trend of college sentiment elsewhere.

"The progressive movement" has invaded education. At the last meeting of the High School section of the National Educational Association, a definite plan was formulated and presented to the colleges. This involves serious changes in the requirements for admission to college. Practically they ask that any subject they choose to teach shall be accepted by the colleges as satisfactory. Such matters as the Manual and Mechanic Arts, Household Science and Commercial Subjects are specially mentioned. To make room for them, foreign languages

are to be reduced to two years' study of one modern language or in some cases omitted altogether. In certain contingencies no mathematics is to be required. The argument is that many students of the public schools, either from intellectual limitations or the exigencies of early life, are deprived of the advantage of studying the college subjects till too late to make the necessary preparation and hence their ambition is checked and their opportunities lost. If *every* student who successfully completes a four years' high school course, would thereby be admitted to college many a boy and girl would find a way to get there.

The attitude towards this demand has been varied. Some colleges, like Cornell and Chicago, have partially yielded, accepting such students on probation. The most of the older ones have not as yet modified their standards. The result will probably be that two sorts of colleges will develop. There will be some which will recognize this popular "vocational" demand and will introduce courses where these subjects may be continued. There will be others which will consider, as in the past, the disciplinary and cultural value of studies and will refuse seriously to modify the present conditions. They will feel that to make scholars it will be necessary to have the proper foundation, and that the failure to have acquired a fair amount of linguistic and scientific attainment in school is almost fatal to high scholarship in the college. It would mean, moreover, that a lot of elementary subjects would have to be taken up after admission and that the work in the "practical" subjects would be useless in this relation.

It is not necessary to state in which class Haverford will find itself. Yet there is something to be said for the other idea, and we may probably expect in the future wider divergences among colleges than in the past, and specialties developed in college education as in nearly all businesses and professions.

Haverford College Bulletin

VOL. X

FIFTH MONTH, 1912

No. 6

Issued eight times a year by
Haverford College, Haverford, Pa.

Entered December 10, 1902, at Haverford, Pa.,
as Second Class Matter under Act of Congress of July 16, 1894

THE STUDY AND GALLERY IN THE UNION.

The early months of the fall will see the consummation of another of the plans to make the Union an attractive center of Haverford life. The furniture for the new Gallery and Study has gradually been secured until, with the exception of a few pieces, it is ready to be installed. The accompanying sketch shows the room as it will be when complete. It is divided into two sections by the book-cases—the smaller section suitable for quiet reading, the larger, the Gallery, for general recreation. The idea of the Gallery is taken from the Print Room of the New York Public Library. The two cases of three sections each are designed in particular for prints of work by Haverfordians, yet it is hoped that at times of special gatherings at the College there will also be exhibited other interesting and rare collections.

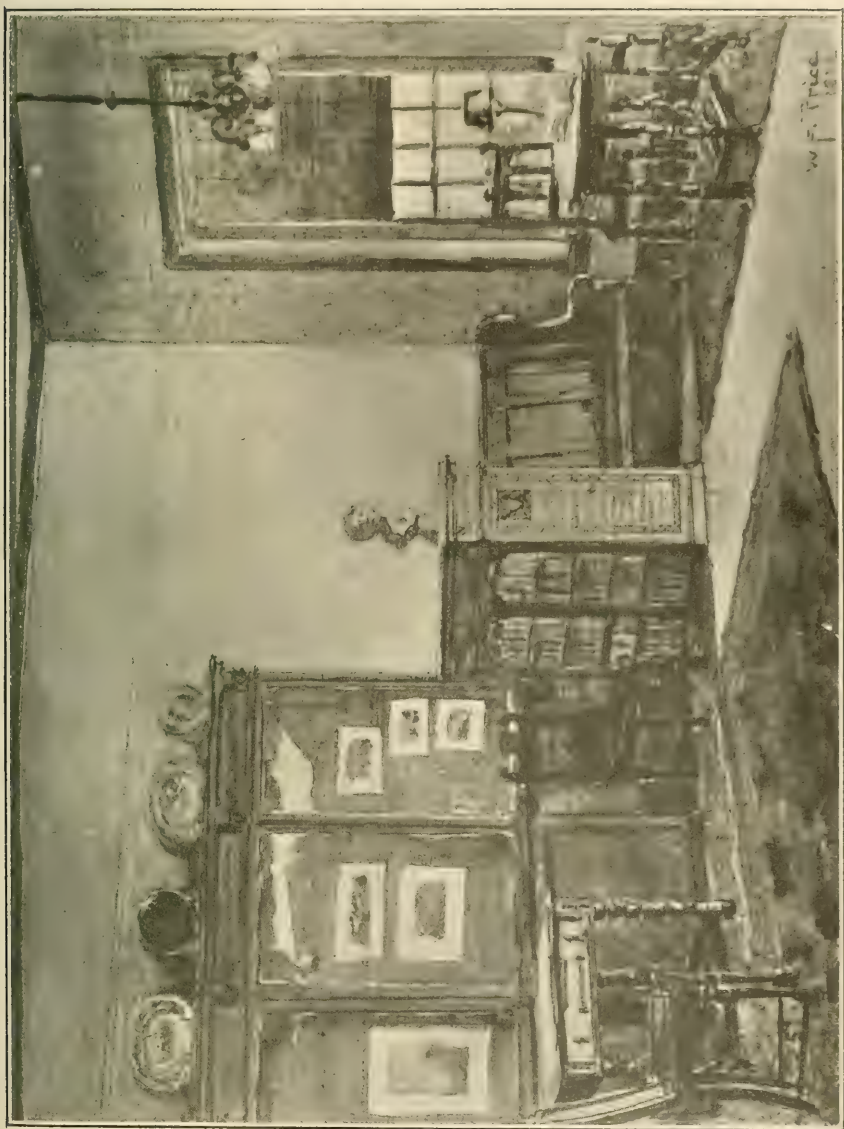
The Committee has been peculiarly fortunate in obtaining several valuable chairs and pictures for this room. Four of the chairs date from circa 1650-80. Two of these are old English Yorkshire oak, and are from Glynde, the former home in Sussex of Sir Garnet Joseph Wolseley, a veteran of the Crimean, Chinese, Indian and African wars, now residing near Dresden. We hope that it will be possible to obtain a picture of Glynde for the Study.

The oblong oak table and round gate-table are each about two hundred and fifty years old. The other pieces, necessarily more modern, have been chosen to harmonize with the general scheme of furnishing. It is fitting that opposite the door will hang the portrait of the founder of Quakerism in Pennsylvania, and below him, an old water-color of Christ Church, Oxford, which he attended in 1659. Other portraits will be those of Erasmus and Chaucer, while those of Washington and Lincoln will adorn the hall adjoining. An effort will be made to procure the busts of Whittier and Bright to place upon the cases.

As yet, no books have been loaned or donated for the Study. Of whatever type they are, they will be for use, not for ornament. The room itself is intended for use—not perhaps so much a general gathering place as is the Living-Room, but rather as a quiet retreat for those who would study, or play chess between classes. The College will undoubtedly increase in size in the near future and the Union will become more and more an indispensable element at Haverford. As the funds are provided, the Committee will complete the details of this room, which are listed on the reverse of the sketch. It may be several years before the last woodwork is carved or the stained glass to be set in mullions of the windows is in place, yet as the new mellows into the old, this room will undoubtedly be one of the most beautiful in the Union.

J. M. B., JR.

The year 1911-12 will be a marked one in the history of Haverford College for the great liberality of its friends and the rapid development of its physical equipment. At the end of last year our Chemical Hall was finished, but not equipped. During the summer its furniture



W. F. Price
1891

SCHEDULE "A" (Provided)

STUDY (Owned)

Two oak bookcases and seats, including carving . . . \$200.45
Electric portable lamp . . . 18.50

(Donated)
Doors for one side of the two bookcases . . . 36.00

GALLERY

Copy of Jacobean chair . . . 17.50
Two easy leather chairs and leather cushions for
seats . . . 150.00 (say)

For use in "Study" (Loaned)

One gate table.
One pair English Yorkshire chairs.

For use in Gallery

One small antique oak table, and two English
chairs from "Glynde"
A number of framed pictures and engravings (say) 400.00

Total provided . . . \$822.45

SCHEDULE "B" (Needed)

Two wall-cases, as per estimate . . . \$180.00
Nest of three additional oak tables, as per estimate . . . 40.00
Three additional copies of Jacobean chairs . . . 52.50
Busts of Jno. Bright, and Jno. Greenleaf Whittier.
Books (at selection of librarian or committee).
Additional carving . . . 50.00

Total to complete Study and Gallery of the
Haverford Union . . . \$322.50
(Exclusive of cost of rugs, busts and books.)

Subscriptions for, or donations of any of the above
articles will be received thankfully by any member of the
Committee:

'85—FRED H. STRAWBRIDGE,
'81—WALTER F. PRICE,
'84—A. P. SMITH, *Chairman*.

and scientific equipment were added and Dr. Hall had the satisfaction of starting the year in one of the most modern and convenient buildings of its kind to be found among the smaller colleges of the country.

At the same time the subscriptions for scientific purposes enabled us to spread the biological and physical departments over the old chemical quarters in Founders' Hall and furnish them with considerable new machinery, so that they have benefited almost as much as chemistry. We have been enabled also to find a habitation and new cases for a part of our fine collection of birds, which, through the energy of Albert L. Baily, Jr., have been placed in good condition and classified.

The Infirmary, which was a prospect one year ago, is now completed and furnished. This gem of a building, erected and equipped, as a tablet on its walls explains, as a memorial to James T. and Isaac W. Morris, leaves nothing to be desired. The donor has given days and weeks of anxious study to all its details and nothing desirable that could be thought of has been omitted. Externally it is beautiful if plain. Within, the planning of the rooms, the comfort of the ailing, the needs of the doctor and nurse, the demands of sanitation, have been the subject of much investigation and study, and time alone will show how much future generations of Haverfordians will owe to the careful forethought as well as the liberality of John T. Morris. The only criticism one hears is that it will become too attractive a feature of our life, so much more so than our class rooms and library that sickness will become unduly prominent.

The plethora of books in our library, now about 60,000 volumes, loudly demanded increased space. It seemed better to build at once a fire-proof stack room, capable of housing 80,000 or 90,000 books, which will meet our demands for a long time to come. In this addition there

will be no reading accommodations, simply white enameled steel cases so close together as to admit of passage-ways among them, and rising from the floor in three tiers, each seven feet high. This building, while bearing an inscription that it is a memorial to Jacob P. Jones, is the donation of a friend whose benefactions are numerous but whose name according to his own wish seldom is seen in our announcements.

While the building is provided for, the cases still remain an object for the considerate loyalty of our friends.

The reading room of the Union was not furnished with the rest of the building. Through the care of the donor to have every detail appropriate and tasteful and the aid of other of our friends, we will soon be able to point to a handsomely furnished room worthy, and this is good praise, to be seen with the rest of the Hall. It is becoming more and more evident how useful a place the Union fills in our college life.

Mrs. Walton will soon place on Walton Field a drinking fountain as a memorial to her husband. It was to the energy of Ernest F. Walton as an undergraduate, that the grading of the field which bears his name and the construction of the running track were largely due. The fountain is a beautiful and appropriate supplement to his work.

Something is yet needed to complete the field. The approaches should be laid out and a new grand stand erected. If the field were brought to the level of the track it would be an improvement.

Finally, the class of 1912 just graduating, is to leave as a present to the college, a gateway at the entrance to the grounds, near the house of the president.

Such is the record of one year of alumni loyalty, as displayed in tangible improvement.

HAVERFORD COLLEGE BULLETIN

VOL. X

SIXTH MONTH, 1912

No. 7

Athletic Number

1911-1912



Issued Quarterly by Haverford College,
Haverford, Pa.

Entered December 10th, 1902, at Haverford, Pa.
as Second-Class Matter under Act of Congress of July 16th, 1894

Haverford College Athletics



1911-1912



*Edited in the interest of
Haverford Athletics by*

JAMES A. BABBITT, M. D.

*Director of the
Physical Department*

Press of
THE JOHN C. WINSTON CO
1006-1016 Arch Street,
Philadelphia, Pa.

PREFACE

The year of 1911-12 has been a year of growth in real Haverford spirit and our uppermost thought in this foreword is one of tribute to the loyal instructor of our Athletic Teams who was taken from us so quickly in January.

John J. Guiney had become a most genuine and loyal Haverfordian, most keenly interpreted the spirit of Haverford life, was a most staunch supporter of Haverford ideals in sport. The Physical Department shares with the student body, their keen loss in his untimely death.

HAVERFORD COLLEGE, June 10, 1912.

Haverford College

Department of Physical Education

ISAAC SHARPLESS, Sc.D., LL.D., L.H.D.,
President.

JAMES A. BABBITT, A.M., M.D.,
Professor of Hygiene and Physical Education.

JOHN J. GUINEY,
Instructor of Football and Athletic Teams.

ALFRED LORANUS ATWOOD, A.B.,
Instructor in Physical Training.

GEORGE BENNETT,
Coach of Cricket Teams.

PHILIP BISHOP,
Coach of Gymnasium Team.

FRANK HUIISH,
Coach of Soccer Teams.

Athletic Cabinet 1911-1912

D. C. MURRAY

E. WALLERSTEIN

L. M. SMITH

W. H. ROBERTS

F. G. SMILEY

R. E. MILLER

L. C. RITTS, *Chairman*

D. P. FALCONER

L. R. THOMAS

W. C. LONGSTRETH

Athletic Association

L. C. RITTS, '12—*President*

H. W. TAYLOR, '14—*Secretary*

Joint Committee on Athletics, 1911-12

Alumni Members

J. W. SHARP, *Chairman*

HENRY COPE	W. C. LOWRY
DR. T. F. BRANSON	CHAS. J. RHOADS
J. H. SCATTERGOOD	A. M. COLLINS
DR. F. B. JACOBS	A. C. MAULE
DR. F. C. SHARPLESS	H. S. DRINKER
C. C. MORRIS	H. N. THORN

Faculty Members

PRESIDENT ISAAC SHARPLESS

DR. JAMES A. BABBITT

Undergraduate Members

D. C. MURRAY, '12	W. H. ROBERTS, JR., '12
L. C. RITTS, '12	L. R. THOMAS, '13
L. M. SMITH, '12	F. G. SMILEY, '12
T. SHIPLEY, '12	E. WALLERSTEIN, '12
A. L. BAILY, '12	P. C. BREWER, '12

Constitution of Haverford College Athletic Association

Name.

ARTICLE 1. This Association shall be known as the Haverford College Athletic Association.

Members.

ARTICLE 2. All undergraduates are eligible as Active Members. and all graduates, ex-students and members of the Faculty of Haverford College are eligible as Associate Members of this Association.

Departments.

ARTICLE 3. This Association shall consist of six departments, namely, Cricket, Football, Soccer, Gymnasium, Track and Tennis.

Department Officers.

ARTICLE 4. Section 1. The active members of this Association shall, not later than the close of each collegiate year, elect the following officers for each department:

(a) Cricket: There shall be a Manager, two Assistant Managers and a Ground Committee consisting of one Senior and two Juniors, who will serve in conjunction with the Captain and the Manager in choosing teams to represent the college in this sport.

(b) Football: There shall be a Manager, two Assistant Managers, four sub-Assistant Managers, a Cheerleader and two Assistant Cheerleaders in this department.

(c) Soccer: There shall be a Manager, two Assistant Managers, and a Ground Committee consisting of two Seniors and two Juniors, who will serve in conjunction with the Captain in choosing teams to represent the college in this sport.

(d) Gymnasium: There shall be a Manager and an Assistant Manager in this department.

(e) Track: There shall be a Manager and two Assistant Managers in this department.

(f) Tennis: There shall be a Manager and an Assistant Manager in this department.

Captains.

Section 2. The regular members of each team, as selected by the committee in charge of awarding the "H" shall, not later than the close of each collegiate year, elect a captain for the ensuing year.

Association Officers.

Section 3. The Active Members of this Association shall, not later than at the close of each collegiate year, elect the following officers of the Association:

First—A President who shall be a Senior.

Second—A Secretary, who shall be a Sophomore.

Joint Committee on Athletics.

ARTICLE 5. There shall be a Joint Committee on Athletics which shall consist of thirteen Alumni members, appointed by the Alumni Association, two Faculty members, and the captains and managers of the different athletic departments of this Association.

Section 1. This Joint Committee shall have the final decision in all important athletic matters which may arise in connection with the college.

Section 2. This Joint Committee shall elect a Treasurer for the Association.

Department Expenses.

ARTICLE 6. The Manager of each department shall confer with the Treasurer of the Association on all financial questions connected with his department.

Treasurer.

ARTICLE 7. The Treasurer shall receive and be the custodian of all funds belonging to the Association, and shall disburse the same according to his best judgment. He shall publish an annual report in some undergraduate publication, fully itemized, and showing the exact expenses of each department. His accounts should be audited annually, by an expert appointed by the joint committee. He shall see that donations for special uses are so expended.

Dues.

ARTICLE 8. The annual dues of all Active Members shall be seven and one-half (\$7.50) dollars. The annual dues of the Associate Members shall be five (\$5.00) dollars.

Section 1. Taking \$7.50 as the basis, the dues shall be divided between the different departments as follows: (a) Cricket, \$1.50; (b) Football, \$2.00; (c) Soccer, \$1.50; (d) Gymnasium, \$0.50; (e) Track, \$1.00, and (f) Tennis, \$1.00.

Special Meetings.

ARTICLE 9. The President or the Manager of any department may call a meeting of the Association at any time.

Nominating Committee.

ARTICLE 10. There shall be a Nominating Committee composed of three Seniors, two Juniors, and one Sophomore. All the officers of this Association, except the Treasurer, shall be nominated by this committee. Any additional nominations shall be posted at the signed request of ten members.

Admission to Events.

ARTICLE 11. Every Associate Member of the Association, in good standing, shall receive a card admitting him to all home athletic contests.

Amendments and By-Laws.

ARTICLE 12. The Joint Committee shall make such further Rules and Regulations, as may seem necessary, from time to time, but these articles shall not be amended except by two-thirds vote of the active members, after a week's notice.

Regulations for Awarding Insignia, Haverford College

I.

All committees for awarding college emblems shall be held responsible to the Athletic Association.

II.

The Varsity H for all branches of athletics shall be of a uniform shape, and either of two sizes. The H shall conform to the one of the two standard patterns which shall be kept by the Athletic Association.

III. FOOTBALL.

The football sweater shall be black, coat or V neck, the coat sweater shall have a small black H, and the V neck shall have a large straight H.

The football jersey shall be black with striped sleeves, a scarlet neck and a scarlet waistband, with a scarlet H. The stripes, which shall be two inches wide, shall be alternate scarlet and black.

Men not holders of a football H shall not wear any part of the uniform except on the football field.

The football H shall be awarded each year by the captain, manager, and coach of the football department. No more than twelve "H's" shall be awarded in any one year, and these shall be awarded to the most deserving men.

IV. CRICKET.

The cricket colors shall consist of the cricket sweater, the scarlet and black blazer and cap, and the scarlet and black sash. The cricket sweater shall be white with a low neck, and a lower waistband of scarlet and black, one and one-half ($1\frac{1}{2}$) inches wide, and shall have on the breast a scarlet Varsity H.

The cricket colors shall be awarded each year by the Ground Committee of the Cricket Department. Colors shall be awarded

to the most deserving players each year, and shall be limited to eleven in number.

V. TRACK.

The track uniform shall consist of a white sleeveless jersey and white running trousers, with scarlet and black stripes down the sides and with a scarlet and black waistband.

The track Varsity sweater shall be a plain scarlet sweater, and the track H shall be a black Varsity H on both the sweater and the jersey.

The track H shall be awarded each year by the captain, manager, and a director of the Track Department at their discretion. The following men only shall be eligible for consideration:

(a) Men who have won a point or part of a point in the annual meet of the I. C. A. A.

(b) Men who have won first place and three (3) other points; or who have tied for first place and won three (3) other points.

(c) Members of a winning relay team in the relay carnival at Franklin Field who have won three points in dual meets during the season.

VI. GYMNASIUM.

The gymnasium uniform shall consist of black tights, black coat with red V insert, a red belt. The insignia shall be a black H. C. G. monogram. The award of the insignia and the H shall be left to the discretion of the captain and manager. Not more than two H's shall be awarded.

VII. SOCCER.

The soccer uniform shall consist of a gray shirt with a scarlet and black sash running diagonally over the right shoulder; black trousers and scarlet and black stockings. Any man who has played in two intercollegiate games shall be entitled to wear the college seal on the pocket of his shirt.

The soccer sweater shall be plain white coat sweater with a scarlet Varsity H. The soccer H shall be awarded each year by the Ground Committee of the Soccer Association, to not more than five (5) men.

VIII. VARSITY CAP.

There shall be a Varsity cap, which may be worn by the holders of any Varsity H. This cap shall be a plain black Eton cap, with

a scarlet H, which shall be one and one-half ($1\frac{1}{2}$) inches in height and one (1) inch in width, and which shall conform in shape to the Varsity H.

IX. WEARING OF EMBLEMS.

No person shall be entitled to wear any emblems, uniforms, or parts of uniforms above mentioned, except on the field or in a meet, until that person shall been authorized to do so by the committees having charge of the same.

X. HATS AND CAPS.

No person shall wear an H, either plain or in monogram, on any hat or cap except on the Varsity cap.

XI. CLASS NUMERALS.

Numerals may be worn only by those who have won them, upon the regulation class jersey—a black jersey with scarlet cuffs, waistband, neck, and numerals—or on any style sweater, except the Varsity sweater, in black or scarlet and black.

Numerals shall be awarded by the same committee that awards the corresponding H in each department, subject to the following regulations:

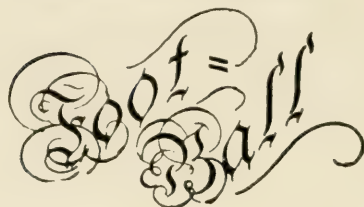
Football—Numerals may be awarded to Sophomores and Freshmen who play in the Sophomore-Freshman game. And to not more than five (5) Seniors and Juniors, deserving them for good, conscientious work during the season, either on the Scrub or on the Varsity; except that those who receive their Varsity H shall not be awarded numerals. The awards shall be made each year.

Cricket—Numerals may be awarded to not more than six (6) members of the team winning the Class Championship, and to not more than four (4) members of any of the other class teams, and they shall be awarded to the most deserving each year.

Track—The winning of a first place and three (3) additional points in the Sophomore-Freshman track meet or a first place in the Interclass track meet secures numerals.

Tennis—The college champion in singles shall be awarded numerals.

Association Football—Numerals may be awarded to not more than six (6) members of the team winning the Class Championship, and to not more than four (4) members of any of the other class teams, and they shall be awarded to the most deserving each year.



— SEASON —

1912

Cheer Leader

K. A. RHOD, '12

Assistant Cheer Leaders

JOSEPH TATNALL, '13, AND R. HOWSON

Manager

L. C. RITTS, '12

Assistant Managers

C. H. CROSMAN, '13

C. E. HIRES, JR., '13

Captain

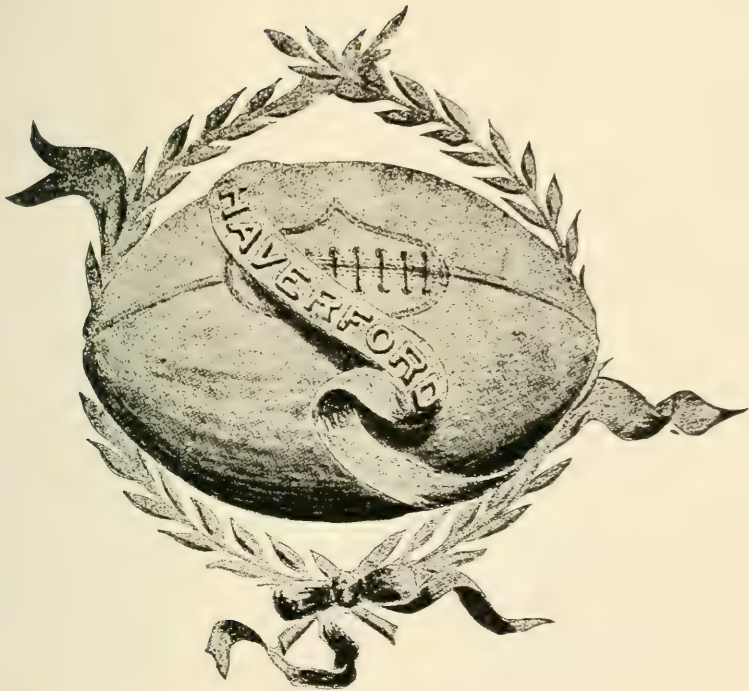
D. C. MURRAY, '12

Coach

J. J. GUINEY

Haverford College Football Team

D. C. MURRAY, '12 (Captain)	Right End
J. A. BROWNLEE, '12	Left Tackle
J. A. COPE, '12	Center
F. H. FARGUHAR, '12	Left End
C. T. MOON, '12	Left Guard
E. WALLERSTEIN, JR., '12	Quarter-back
F. M. FROELICHER, '13	Right Guard
W. C. LONGSTRETH, '13 (Captain Elect)	Left Halfback
L. R. THOMAS, '13	Right Halfback
H. W. TAYLOR, '14	Right Tackle
P. H. SANGREE, '14	Fullback
H. W. SECKEL, '14	Quarter-back



Foot Ball Season 1911

Sept. 30.	Haverford 49	Phila. Col. Phar. 0 at Haverford
Oct. 7.	Haverford 6	Rutgers 10 at New Brunswick
Oct. 14.	Haverford 17	Delaware 0 at Haverford
Oct. 21.	Haverford vs. Dickinson (cancelled)	
Oct. 28.	Haverford 3	F. and M. 0 at Lancaster
Nov. 4.	Haverford 0	Lehigh 12 at Haverford
Nov. 11.	Haverford 15	Stevens 6 at Hoboken
Nov. 18.	Haverford 6	Trinity 24 at Haverford
Nov. 25.	Haverford 0	Bucknell 15 at Lewisburg
Nov. 28.	Sophomores . . 6	Freshmen 0 at Haverford

Wearers of Foot Ball H

J. A. BROWNLEE, '12	F. M. FROELICHER, '13
J. A. COPE, '12	W. C. LONGSTRETH, '13 (Capt.-Elect)
F. H. FARQUHAR, '12	O. M. PORTER, '13
C. T. MOON, '12	L. R. THOMAS, '13
D. C. MURRAY, '12 (Capt.)	H. W. TAYLOR, '14
L. C. RITTS (Manager)	P. H. SANGREE, '14
F. G. SMILEY, '12	H. W. SECKEL, '14
E. WALLERSTEIN, JR., '12	

Wearers of Foot Ball Numerals

1912

J. A. BROWNLEE	K. A. RHOAD
J. A. COPE	F. G. SMILEY
H. FROELICHER, JR.	W. H. STEERE
H. M. LOWRY	H. M. THOMAS, JR.
I. C. POLEY	ED. WALLERSTEIN, JR.

R. E. MILLER

1913

W. S. CROWDER	W. C. LONGSTRETH
F. A. CURTIS	J. D. LUDLAM
F. M. FROELICHER	O. M. PORTER
P. C. GIFFORD	N. H. TAYLOR
W. Y. HARE	L. R. THOMAS
C. E. HIRES, JR.	J. V. VAN SICKLE

WM. WEBB

1914

H. W. ELKINTON	R. C. SMITH
R. S. PHILLIPS	H. W. TAYLOR
P. H. SANGREE	C. R. WILLIAMS

1915

M. J. KALEEL	L. D. LOCKE
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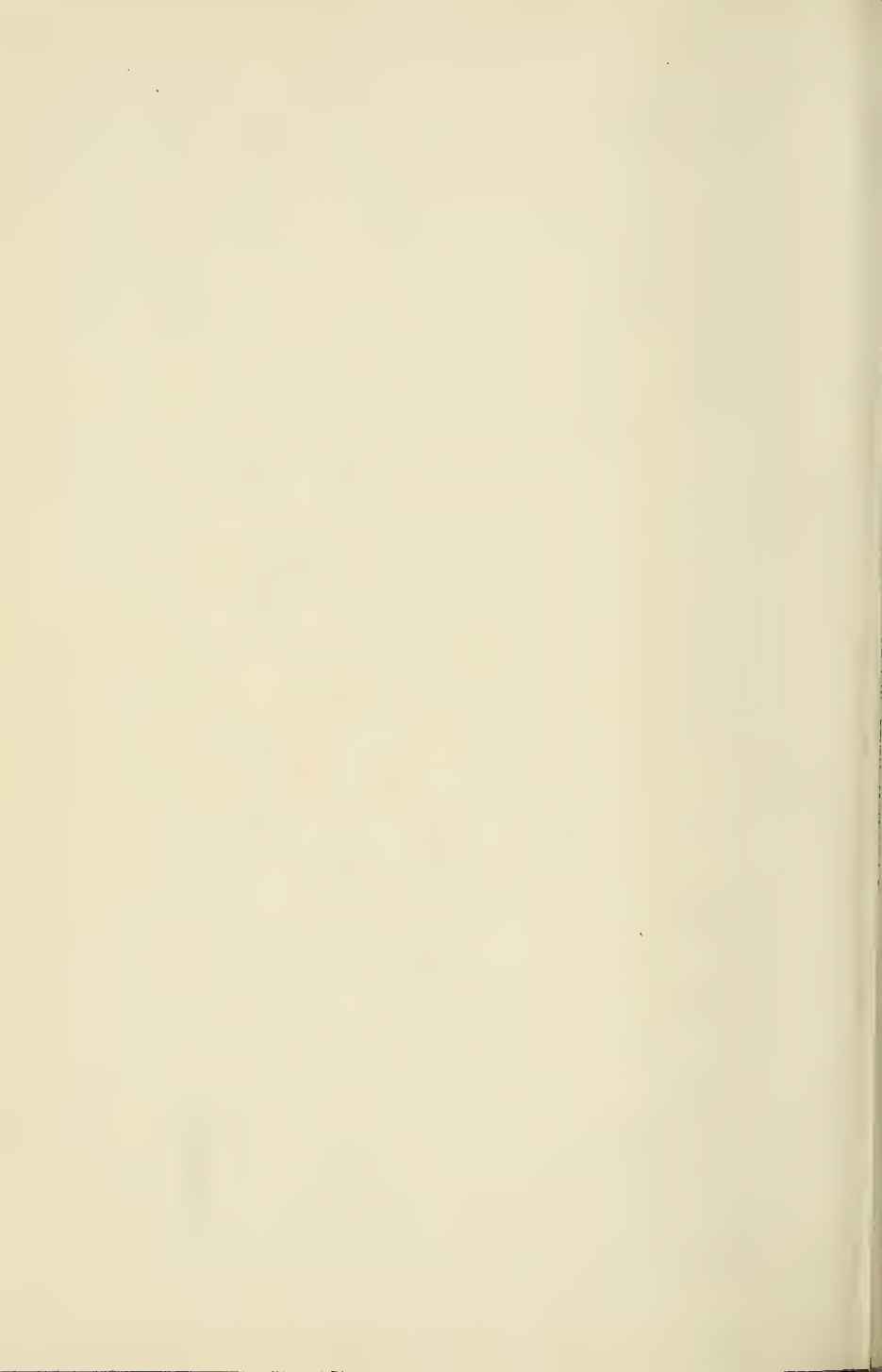
E. M. PHARO

W. H. STEERE, '12—Holder of cup for most faithful player of the "Scrubs."

E. M. PHARO, '15—Holder of cup for most faithful Freshman.



FOOTBALL TEAM



Association (Soccer) Foot Ball, 1911-12

T. E. SHIPLEY, '12, *Manager*

H. V. NICHOLSON, '13, W. C. LONGSTRETH, '13, *Asst. Managers*

L. M. SMITH, '12, *Captain*

FRANK HUISH, *Coach*

Haverford College Soccer Team

L. M. SMITH, '12 (Captain).....	<i>Center Half</i>
J. TATNALL, '13.....	<i>Goal</i>
A. L. BAILY, JR., '12.....	<i>Right Back</i>
W. D. HARTSHORNE, JR., '11.....	<i>Left Back</i>
L. V. H. THOMAS, '14.....	<i>Right Half</i>
W. C. LONGSTRETH, '13.....	<i>Left Half</i>
L. R. THOMAS, '13 (Capt. Elect).....	<i>Outside Right</i>
E. WALLERSTEIN, JR., '12.....	<i>Inside Right</i>
J. S. DOWNING, '11.....	<i>Center Forward</i>
S. E. STOKES, '14.....	<i>Inside Left</i>
J. S. BENTLEY, '14.....	<i>Outside Left</i>
D. P. FALCONER, '12.....	<i>Substitute</i>
C. T. MOON, '12.....	<i>Substitute</i>

Season 1911-12

First Team

Nov. 16.	Haverford.. 1	Westtown.....	5 at Westtown
Nov. 25.	Haverford.. 0	Moorestown.....	2 at Moorestown
Nov. 30.	Haverford.. 4	Belmont 2d.....	1 at Haverford
Dec. 19.	Haverford.. 3	State College.....	2 at Haverford
Jan. 6.	Haverford.. 0	Phila. Electric.....	1 at Haverford
Jan. 20.	Haverford.. 1	Moorestown.....	2 at Haverford
Jan. 27.	Haverford.. 0	Phila. Electric.....	5 at Haverford
Feb. 3.	Haverford.. 1	Cardington.....	2 at Haverford
Feb. 10.	Haverford.. 0	West Phila.....	0 at Haverford
Feb. 17.	Haverford.. 2	Belmont.....	3 at Haverford
Feb. 24.	Haverford.. 3	Tacony.....	0 at Haverford
Mar. 2.	Haverford.. 0	Kensington Res.....	0 at Haverford
Mar. 9.	Haverford.. 2	Pennsylvania.....	0 at Haverford*
Mar. 16.	Haverford.. 0	Yale.....	2 at New Haven*
Mar. 23.	Haverford.. 1	Columbia.....	0 at Haverford*
Mar. 30.	Haverford.. 3	Cornell.....	2 at Ithaca*
Apr. 5.	Haverford.. 3	Alumni.....	1 at Haverford
Apr. 8.	Haverford.. 0	Harvard.....	4 at Haverford*

* Intercollegiate.

Intercollegiate Championship won by Yale.

Second Team

Dec. 9.	Haverford.. 1	Belmont 2d.....	4 at Belmont
Jan. 20.	Haverford.. 0	I. C. of N. A.....	1 at Haverford
Feb. 17.	Haverford.. 1	Penn 2d.....	1 at Haverford
Feb. 24.	Haverford.. 2	Vincome.....	1 at Haverford
Mar. 2.	Haverford.. 2	I. C. of N. A.....	0 at Haverford
Mar. 16.	Haverford.. 1	Hajoca.....	2 at Haverford



SOCCER TEAM.

Class Games

Dec. 5. 1912.....	2	1913.....	0 at Haverford
Dec. 12. 1912.....	1	1913.....	0 at Haverford
Dec. 13. 1915.....	0	Episcopal.....	1 at Haverford
Dec. 12. 1914.....	2	1915.....	0 at Haverford
Feb. 20. 1912.....	2	1914.....	0 at Haverford
Apr. 2. 1912.....	3	1914.....	0 at Haverford

Class Championship won by Seniors.

Wearers of Soccer H

J. S. DOWNING, '11	A. L. BAILY, JR., '12
W. C. MURRAY, '12	L. M. SMITH, '12
J. S. BENTLEY, '14	

Soccer Numerals Awarded

W. D. HARTSHORNE, JR., '11

C. G. DURGIN, '12

L. W. FERRIS, '12

ED. WALLERSTEIN, JR., '12

H. V. NICHOLSON, '13

L. R. THOMAS, '13

H. S. MILLER, '14

L. V. H. THOMAS, '14

YOSHIO NITOBÉ, '15

J. A. COPE, '12

D. P. FALCONER, '12

C. T. MOON, '12

N. F. HALL, '13

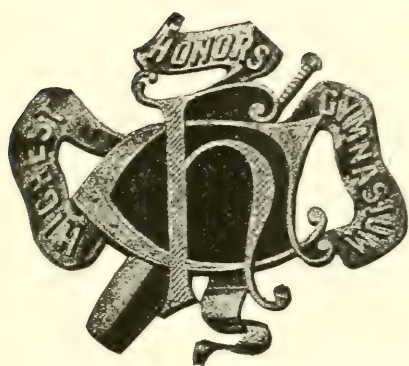
JOS. TATNALL, '13

G. V. DOWNING, '14

S. E. STOKES, '14

J. W. GUMMERE, '15

D. B. VAN HOLLEN, '15





Season 1911-12

A. L. BAILY, JR., '12—*Manager*

P. C. GIFFORD, '13, and W. S. CROWDER—*Assistant Managers*

ED. WALLERSTEIN, JR., '12—*Captain*

J. J. GUINEY AND P. BISHOP—*Coaches*

Haverford College Gymnasium Team, 1911-12

ED. WALLERSTEIN, JR., '12, *Captain*

A. L. BAILY, JR., '12

W. H. STEERE, '12

L. B. LATHAM, '12

P. G. BAKER, '13

C. H. CROSMAN, '13

A. H. GODDARD, '13

P. C. GIFFORD, '13 (Capt. Elect)

ED. RICE, JR., '14

D. WAPLES, '14

Schedule

January 15, Interclass Meet at Haverford.

January 20, Quadrangular Exhibition at Haverford.

February 16, Interscholastic Meet at Haverford.

February 17, Dual Meet with Lehigh at South Bethlehem.

March 2, Dual Meet with Pennsylvania at Haverford.

March 22, Intercollegiates at Haverford.

Interclass Meet

January 15, 1912

HORIZONTAL BAR—1st, Wallerstein, '12; 2d, Goddard, '13; 3d, Baily, '12.

CLUBS—1st, Baker, '13; 2d, Baily, '12; 3d, Gifford, '13.

PARALLEL BARS—1st, Crosman, '13; 2d Howson, '13; 3d, Wallerstein, '12.

SIDE HORSE—1st, Steere, '12; 2d, Crosman, '13; 3d, Gifford, '13.

FLYING RINGS—1st, Goddard, '13; 2d, Wallerstein, '12; 3d, Baily '12.

TUMBLING—1st, Wallerstein, '12; 2d, Baily, '12; 3d, Goddard, '13.
1912, 27. 1913, 27.

Novice Events.

HORIZONTAL BAR—1st, Lathem, '12; 2d, Stokes, '14; 3d, Sangree, '14.

PARALLEL BARS—1st, Lathem, '12; 2d, Stokes, '14; 3d, Sangree, '14.

SIDE HORSE—1st, Lathem, '12; 2d, Edgerton, '14.

FLYING RINGS—1st, Lathem, '12; 2d, Stokes, '14; 3d, Sangree, '14.

CLUBS—1st, Montgomery, '13; 2d, Thomas, '13; 3d, Froelicher, '12.

TUMBLING—1st, McNEIL, '15; 2d, Sangree, '14; 3d, Cope, '12.

1912, 22. 1914, 18. 1913, 8. 1915, 5.

Meet won by Seniors, 1912.

Annual Quadrangular Gymnastic Exhibition

January 20, 1912

HORIZONTAL BAR.

Wallerstein, Lathem.....	HAVERFORD
Smith, Cremer, Brookov, Mr. Bissinger.....	NEW YORK
Clark, Hay, Rowland.....	PRINCETON
Heap, Graham, Hackett.....	PENNSYLVANIA

SIDE HORSE.

Steere.....	HAVERFORD
Cremer, McAdam, Mr. Bissinger, Krimmel.....	NEW YORK
Hay, Sealy, Clark, Annin.....	PRINCETON
Leonard, Kite.....	PENNSYLVANIA

FLYING RINGS.

Goddard, Lathem.....	HAVERFORD
McAdam, Brookov, Mr. Bissinger, Krimmel.....	NEW YORK
Clark, Hay, Wolfe.....	PRINCETON
Heap, Hunt, Hackett, Miller.....	PENNSYLVANIA

DOUBLE TRAPEZE.

Dyckman, Orfison.....	PRINCETON
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PARALLEL BARS.

Crosman, Howson.....	HAVERFORD
Cremer, Saul, Brookov, Odell, Mr. Bissinger.....	NEW YORK
Lehman, Clark, Hay.....	PRINCETON
Heap, Erb, Leonard, Hill, Hunt.....	PENNSYLVANIA

CLUB SWINGING.

Baily, Baker, Gifford, Montgomery.....	HAVERFORD
Phillips, Dutcher.....	NEW YORK
Leonard, Smith, Finletter.....	PENNSYLVANIA

TUMBLING.

Wallerstein.....	HAVERFORD
Kennard.....	NEW YORK
Clark, Moffart, Hay, Hogan.....	PRINCETON
Heap, Hill.....	PENNSYLVANIA

THREE HIGH.

Bissell, Lehman, Quinn.....	PRINCETON
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BALANCING TRAPEZE.

Dyckman.....	PRINCETON
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Summary of Meet

HORIZONTAL BAR.

Heap.....	PENNSYLVANIA
Callahan.....	YALE
Hay.....	PRINCETON

SIDE HORSE.

Brinton.....	PENNSYLVANIA	}
Cremer.....	NEW YORK	
Leonard.....	PENNSYLVANIA	

PARALLEL BARS.

Ruge.....	YALE	}
Heap.....	PENNSYLVANIA	
Styles.....	ILLINOIS	
Lehman.....	PENNSYLVANIA	

tie

CLUB SWINGING.

Briggs.....	RUTGERS
Nelson.....	RUTGERS
Finletter.....	PENNSYLVANIA

FLYING RINGS.

Wolfe.....	PRINCETON	}
Ruge.....	YALE	
Waples.....	HAVERFORD	

tie

TUMBLING.

Callahan.....	YALE
Moffat.....	PRINCETON
Samuels.....	YALE

ALL-AROUND CHAMPIONSHIP.

Callahan.....	YALE
Heap.....	PENNSYLVANIA
Ruge.....	YALE

Score

Yale.....	24
Pennsylvania.....	17
Princeton.....	8½
Rutgers.....	8
New York.....	4
Haverford.....	1
Illinois.....	½

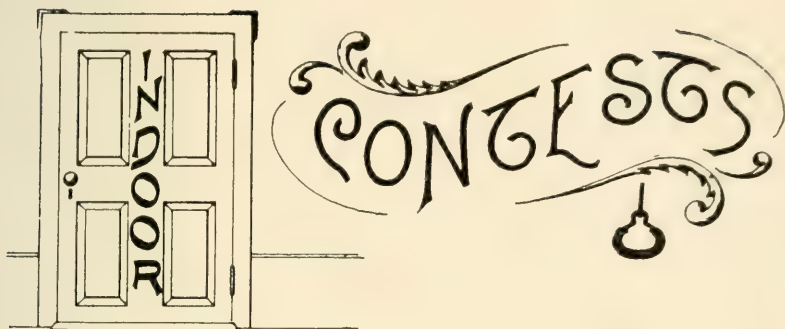
Insignia

The gymnasium "H" was awarded to Wallerstein, '12, and Waples, '14.

Gymnasium Insignia were awarded to Baily '12; Steere, '12, and Baker, '13.



GYMNASIUM TEAM.



Lehigh-Haverford

February 17, 1912

HORIZONTAL BAR—1st, Wallerstein, Haverford; 2d, Baily, Lehigh.

SIDE HORSE—1st, Steere, Haverford; 2d, Menefee, Lehigh.

CLUB SWINGING—1st, Baily, Haverford; 2d, Baker, Haverford.

PARALLEL BARS—1st, Baily, Lehigh; 2d, Waples, Haverford.

FLYING RINGS—1st, Waples, Haverford; 2d, Weber, Lehigh.

TUMBLING—1st, Baily, Lehigh; 2d, Wallerstein, Haverford.

Score: Haverford, 29; Lehigh, 19.

Judges—Dr. Noble, Dr. Krause.

Pennsylvania-Haverford**March 2, 1912**

HORIZONTAL BAR—1st, Heap, Pennsylvania; 2d, Wallerstein, Haverford; 3d, Hackett, Pennsylvania.

SIDE HORSE—1st, Brinton, Pennsylvania; 2d, Leonard, Pennsylvania; 3d, Steere, Haverford.

PARALLEL BARS—1st, Heap, Pennsylvania; 2d, Waples, Haverford; 3d, Hunt, Pennsylvania.

CLUB SWINGING—1st, Baily, Haverford; 2d, Finletter, Pennsylvania; 3d, Hunt, Pennsylvania.

FLYING RINGS—1st, Waples, Haverford; 2d, Hackett, Pennsylvania; 3d, Hunt, Pennsylvania.

TUMBLING—1st, Wallerstein, Haverford; 2d, Heap, Pennsylvania; 3d, Miller, Pennsylvania.

Score: Pennsylvania, 32; Haverford, 22.

Judges: Dr. Noble, Dr. Chadwick.

Intercollegiate Association of Amateur Gymnasts of America

Officers

BISSEL (Princeton)—*President*

FORBUSH (Harvard)—*Vice-President*

BOYD (Pennsylvania)—*Secretary*

CALDWELL (Amherst)—*Treasurer*

Meet held at Haverford March 22, 1912.

Colleges Represented

AMHERST

COLUMBIA

HARVARD

HAVERFORD

ILLINOIS

LEHIGH

NEW YORK

PENNSYLVANIA

PRINCETON

RUTGERS

YALE

Interscholastic Meet

Committee

L. C. RITTS, *Chairman*

DR. J. A. BABBITT	A. L. BAILY, JR.
D. C. MURRAY	R. E. MILLER
E. WALLERSTEIN, JR.	W. C. LONGSTRETH
F. G. SMILEY	L. R. THOMAS
L. M. SMITH	D. P. FALCONER

Judges

DR. J. A. BABBITT (<i>Chairman</i>)	H. J. CADBURY
W. H. CROMIE	R. M. GUMMERE
J. H. FINKLEDAY	T. WISTAR, JR.
E. A. EDWARDS	J. M. SCULL
A. H. HOPKINS	E. N. EDWARDS
W. H. HAINES	A. G. H. SPIERS

Starter

GEO. W. ORTON

Referee

S. FRIEDGEN

Timers: F. A. Palmer, Jr., E. C. Tatnall, W. W. Beam.

Schools Participating

BORDENTOWN MILITARY ACADEMY

DELANCEY SCHOOL

EPISCOPAL ACADEMY

FRIENDS' CENTRAL SCHOOL

GERMANTOWN ACADEMY

HAVERFORD SCHOOL

HILL SCHOOL

LAWRENCEVILLE SCHOOL

LOWER MERION HIGH SCHOOL

MOORESTOWN FRIENDS' ACADEMY

NEWARK ACADEMY

RADNOR HIGH SCHOOL

ST. LUKE'S SCHOOL

TOME INSTITUTE

TRINITY SCHOOL

WILMINGTON FRIENDS' SCHOOL

Summary

200-YARD DASH—1st, W. M. Bray, St. Luke's; 2d, Murdock, Episcopal; 3d, Williams, Germantown.

HIGH JUMP—1st, Johnson, Lawrenceville; 2d, Hoopes, Delancey; 3d, Turner, Episcopal and 4th, Thibault, Haverford (tie).

HORIZONTAL BAR—1st, Bradley, Tome; 2d, Allsons, Newark; 3d, Jones, Newark.

CLUB SWINGING—1st, Crease, Episcopal; 2d, Keiper, Episcopal; 3d, Dodson, Haverford.

SIDE HORSE—1st, Atha, Newark; 2d, Baldwin, Lawrenceville.

FLYING RINGS—1st, Garber, Lawrenceville; 2d, Wiss, Newark; 3d, Crosman, Haverford.

JUNIOR RELAY—1st, Won by Lower Merion; 2d, Radnor High; 3d, Lawrenceville.

ROPE CLIMB—1st, Kurtz, St. Luke's; 2d, Phillips, Lawrenceville; 3d, Gerber, Lawrenceville.

PARALLEL BARS—1st, Bradley, Tome; 2d, Jones, Newark; 3d, Seibert, Trinity.

TUMBLING—1st, McGregor, Tome; 2d, Atha, Newark; 3d, Phillips, Lawrenceville.

20-YARD DASH—1st, Samuels, Episcopal; 2d, Thomas, Haverford; 3d, Long, Radnor.



Track Department 1912

F. G. SMILEY, '12—*Manager*

JOS. TATNALL and W. C. LONGSTRETH, '13—*Assistant Managers*

L. R. THOMAS, '13—*Captain*

Track Team 1912

L. R. THOMAS, '13—*Captain*

A. L. BOWERMAN, '12	F. M. FROELICHER, '13 (Capt. Elect)
J. A. BROWNLEE, '12	W. C. LONGSTRETH, '13
D. P. FALCONER, '12	H. V. NICHOLSON, '13
HARMON MAIER, '12	S. W. MEADER, '13
J. H. PARKER, '12	J. VAN SICKLE, '13
C. T. MOON, '12	W. G. BOWERMAN, '14
O. M. PORTER, '13	E. M. JONES, '14
E. WALLERSTEIN, JR., '12	R. P. MCKINLEY, '14
F. DIAMENT, '13	H. W. TAYLOR, '14
SHAFFER, '15	D. B. VAN HOLLEN, '15

Relay Carnival, Franklin Field

Haverford College Relay Team

L. R. THOMAS, '13 (Capt.)	E. M. JONES, '14
J. H. PARKER, '12	D. B. VAN HOLLEN, '15

OHIO WESLEYAN, First.

FORDHAM, Second.

HAVERFORD, Third.

Time, 3 min., 31 sec.

The Walton Prize Cup

Presented by Mr. Ernest F. Walton, of the Class of 1890, for the encouragement of individual athletic work, and to be awarded annually to the student who wins the highest total of points in athletic competition during the college year, and subject to the following conditions:

1. The athletic events accepted shall be those of the annual interclass athletic meeting, the sophomore-freshman athletic sports, the Pennsylvania relay carnival, the annual Princeton handicap games, and the I. C. A. A. A. A. meeting. Additional events may be accepted at the discretion of the committee of award. (Dual college meets now included.)

2. Points shall count as follows:

INTERCLASS ATHLETIC MEETING—Five, three and one for first, second and third places.

SOPHOMORE-FRESHMAN SPORTS—Three, two and one for first, second and third places.

DUAL COLLEGE MEETS—Five, three and one for first, second and third places, respectively.

PENNSYLVANIA RELAY CARNIVAL—Five or three points for each member of the team winning first or second place.

PRINCETON HANDICAP MEETING—Ten, six and two for first, second and third places.

I. C. A. A. A. A. MEETING—Twenty, fifteen, ten and five points for first, second, third and fourth places, respectively.

3. The athletic sub-committee of the general advisory athletic committee of the alumni and students shall constitute the committee of award.

4. The winner of the Cup shall hold the same for one year and his name with total points won shall be inscribed upon it.

5. The Cup shall be returned to the athletic director immediately after the Intercollegiate Meeting (I. C. A. A. A. A.), and shall be re-awarded within the two weeks following the same meeting.

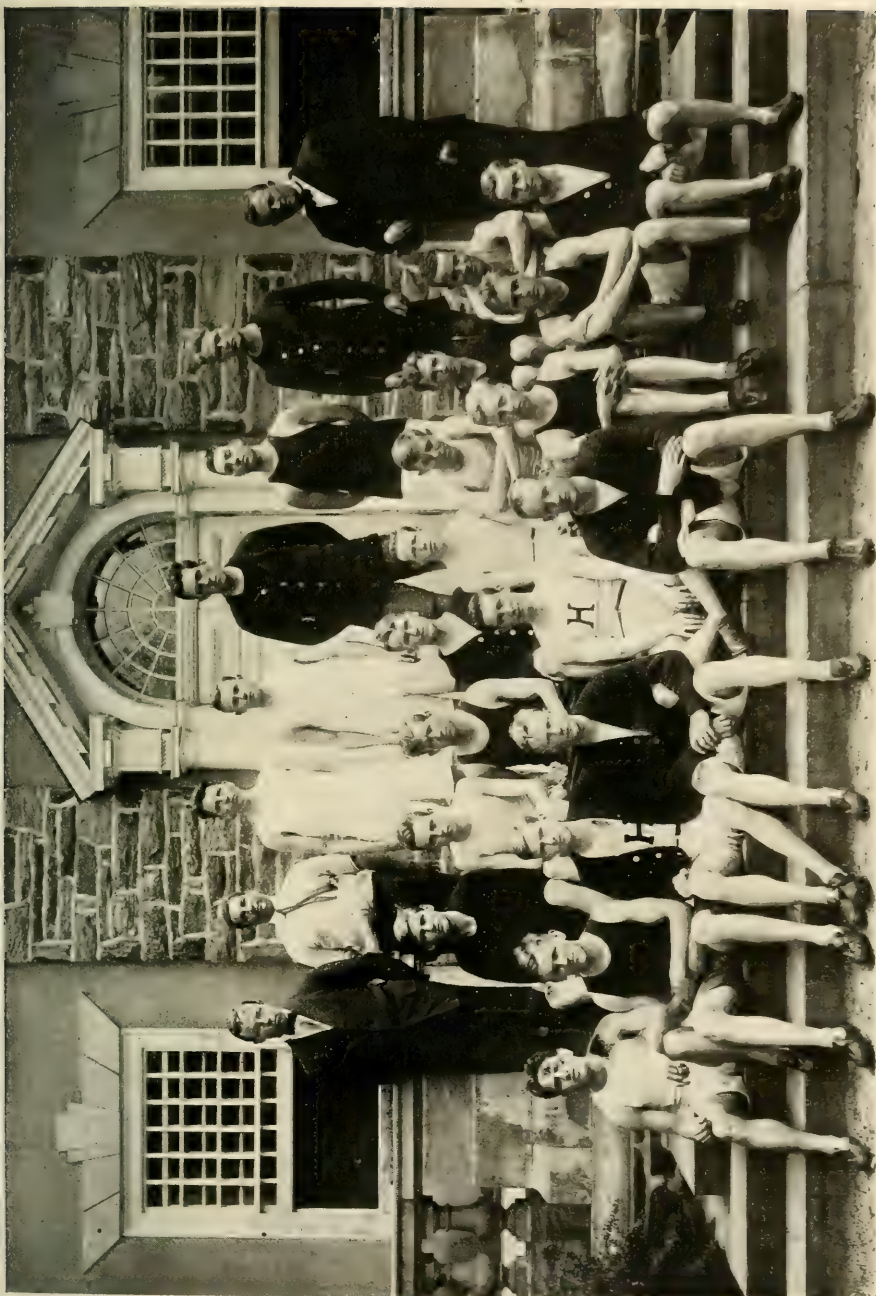
6. The conditions above outlined may be modified at the unanimous wish of the joint student and alumni committee, with the consent of the donor.

Holders of the Walton Prize Cup

1901—J. W. REEDER.....	1902.....	23
1902—J. W. REEDER.....	1902.....	53½
1903—T. K. BROWN, JR.....	1906.....	42
1904—T. K. BROWN, JR.....	1906.....	45
1905—T. K. BROWN, JR.....	1906.....	58½
1906—T. K. BROWN, JR.....	1906.....	77
1907—WALTER PALMER.....	1910.....	62
1908—WALTER PALMER.....	1910.....	66
1909—G. S. BARD.....	1909.....	55½
1910—WALTER PALMER.....	1910.....	60
1911—F. M. FROELICHER.....	1913.....	67½
1912—F. M. FROELICHER.....	1913.....	66½

Sophomore-Freshman Track Meet**October 9, 1911**

- 100-YARD DASH—First, Nitobe, '15; second, Van Hollen, '15.
Time, 11 seconds.
- 120-YARD HURDLES—First, McKinley, '14; second, Helveston, '15.
22 2-5 seconds.
- MILE RUN—First, Bowerman, '14; second, Helveston, '15. Time,
5 minutes 2 2-5 seconds.
- 220-YARD DASH—First, Green, '14; second, Bentley, '14. Time,
25 seconds.
- 220-YARD HURDLES—First, McKinley, '14; second, Green, '14.
Time, 30 2-5 seconds.
- 880-YARD RUN—First, Shaffer, '15; second, Downing, '14. Time,
2 minutes 40 seconds.
- 440-YARD DASH—First, Jones, '14; second, Van Hollen, '15. Time,
57 seconds.
- HIGH JUMP—First, Hallett, '15; second, T. E. Elkinton, '14.
Height, 5 feet 4½ inches.
- SHOT PUT—First, Edgerton, '14; second, Kaleel, '15;. Distance,
29 feet 11¼ inches.
- BROAD JUMP—First, Nitobe, '15; second, Jones, '14. Distance
18 feet 6 inches.
- POLE VAULT—First, T. E. Elkinton, '14; tied with Stokes, '14.
Height, 9 feet 7 inches.
- Score: Sophomores, 1914, 53; Freshman, 1915, 35.



TRACK TEAM.

The Annual Interclass Spring Athletic Meet

May 6 and 7, 1912

- 100-YARD DASH—First, L. R. Thomas, '13; second, D. B. Van Hollen, '15; third, E. M. Jones, '14. Time, 10 2-5 seconds.
- 120-YARD HURDLES—First, F. M. Froelicher, '13; second, tie between R. P. McKinley, '14, and H. Maier, '12. Time, 18 seconds.
- 880-YARD RUN—First, E. M. Jones, '14; second, E. Shaffer, '15; third, C. T. Moon, '12. Time, 2 minutes 21 1-5 seconds.
- 220-YARD DASH—First, Thomas, '13; second, Van Hollen, '15; third, J. H. Parker, '12. Time, 22 4-5 seconds.
- TWO-MILE RUN—First, A. L. Bowerman, '12; second, W. G. Bowerman, '14; third, J. Van Sickle, '13. Time, 11 minutes, 6 2-5 seconds.
- 220-YARD HURDLES—First, McKinley, '14; second, Porter, '13; third, Gifford, '13. Time, 29 1-5 seconds.
- RELAY RACE—First, 1913 (Crowder, Tatnall, Hall, Curtis, Diament, Gifford, Longstreth, Thomas); second, 1912; third, 1914. Time, 3 minutes 37 seconds.
- SHOT PUT—First, Froelicher, '13; second, H. W. Taylor, '14; third, A. Baily, '12. Distance 36 feet 7 inches.
- POLE VAULT—First, Porter, '13; second, T. W. Elkinton, '14; third, tie between Wallerstein '12, and Froelicher, '13. Height, 9 feet 9 inches.
- 440-YARD DASH—First, Thomas, '13; second, Van Hollen, '15; third, Jones, '14. Time, 53 1-5 seconds.
- ONE-MILE RUN—First, Van Sickle, '13; second, Bowerman, '14; third, Shaffer, '15. Time, 5 minutes, 5 3-5 seconds.

HAMMER THROW—First, Moon, '12; second, Meader, '13; third, Brownlee, '12. Distance, 110 feet 3 3-4 inches.

DISCUS THROW—First, Moon, '12; second, Williams, '14; third, A. L. Baily, '12. Distance, 95 feet 4½ inches.

HIGH JUMP AND BROAD JUMP—By agreement of Captains these events were not run off on account of bad weather.

SCORE.

Juniors, 1913.....	60½
Sophomores, 1914.....	30
Seniors, 1912.....	25½
Freshmen, 1915.....	13

Haverford—Lehigh

100-YARD DASH—First, Thomas, Haverford; second Smyth, N.Y. U.
Time, 10.2 seconds.

ONE-MILE RUN—First, Thorne, N. Y. U.; second Van Sickle,
Haverford. Time, 4 minutes 58 seconds.

SHOT PUT—First, Froelicher, Haverford; second, McLaughlin,
N. Y. U. Distance, 39 feet 4 inches.

220-YARD DASH—First, Thomas, Haverford; second, McManus,
N. Y. U. Time, 22 $\frac{3}{5}$ seconds.

POLE VAULT—First, Porter, Haverford; second, White, N. Y. U.
Height, 10 feet.

TWO-MILE RUN—First, Thorne, N. Y. U.; second, W. G. Bowerman,
Haverford. Time, 10 minutes 40 $\frac{3}{5}$ seconds.

220-YARD HURDLES—First, Smyth, N. Y. U.; second, McKinley,
Haverford. Time, 28 $\frac{2}{5}$ seconds.

HIGH JUMP—First, Froelicher, Haverford; second, Maier, Haver-
ford and McLaughlin, tie. Height, 5 feet 6 inches.

440-YARD RUN—First, Jones, Haverford; second, Van Hollen,
Haverford. Time 54 $\frac{4}{5}$ seconds.

HALF-MILE—First, Falconer, Haverford; second, Thorne, N. Y. U.
Time, 2 minutes 8 seconds.

120-YARD HURDLES—First, Brundin, N. Y. U.; second, Froelicher,
Haverford. Time, 17 $\frac{3}{5}$ seconds.

HAMMER THROW—First, Moon, Haverford; second, Ahrens, N.
Y. U. Distance, 112 feet 8 $\frac{1}{2}$ inches.

BROAD JUMP—First, Smyth, N. Y. U.; second, White, N. Y. U.
Distance, 20 feet 3 $\frac{1}{2}$ inches.

Totals:

Haverford, 56 $\frac{1}{2}$ points.

New York University, 47 $\frac{1}{2}$ points.

Haverford—New York University**May 4, 1912**

- 100-YARD DASH—First, Thomas, Haverford; second, Bickley, Lehigh. Time, 10 $\frac{2}{5}$ seconds.
- ONE-MILE RUN—First, Todd, Lehigh; second, Keith, Lehigh. Time, 4 minutes 57 seconds.
- 220-YARD HURDLES—First, Schultz, Lehigh; second, McKinley Haverford. Time, 28 seconds.
- 220-YARD DASH—First, Thomas, Haverford; second, Williams, Lehigh. Time, 22 $\frac{1}{5}$ seconds.
- TWO-MILE RUN—First, Bowerman, Haverford; second, Burnes, Lehigh. Time, 11 minutes 7 $\frac{2}{5}$ seconds.
- 440-YARD DASH—First, Jones, Haverford; second, Van Hollen, Haverford. Time, 55 $\frac{2}{5}$ seconds.
- 120-YARD HURDLES—First, Froelicher, Haverford; second, Whitney, Lehigh. Time, 17 $\frac{3}{5}$ seconds.
- 880-YARD RUN—First, Falconer, Haverford; second, Tinges, Lehigh. Time, 2 minutes 9 $\frac{1}{5}$ seconds.
- 120-YARD HURDLES—First, Froelicher, Haverford; second, Whitney, Lehigh. Time, 17 $\frac{3}{5}$ seconds.
- 880-YARD RUN—First, Falconer, Haverford; second, Tinges, Lehigh. Time, 2 minutes 9 $\frac{1}{5}$ seconds.
- SHOT-PUT—First, Froelicher, Haverford; second, Baily, Lehigh. Distance, 39 feet, 7 inches.
- POLE VAULT—First, Porter, Haverford; second, tie between Van Nort and Keyes, Lehigh. Hight, 9 feet 6 inches.
- HIGH JUMP—Tie, Froelicher, Haverford; Whitney, Lehigh. Height, 5 feet 4 $\frac{1}{2}$ inches.
- HAMMER THROW—First, Moon, Haverford; second, Bailey, Lehigh. Distance, 111 feet 8 $\frac{1}{2}$ inches.
- DISCUS THROW—First, Bailey, Lehigh; second, Brown, Lehigh. Distance, 103 feet 1 inch.
- BROAD JUMP—First Whitney, Lehigh; second, Froelicher, Haverford. Distance, 21 feet 8 inches.
- TOTAL—Haverford, 58; Lehigh, 54.

SCORE.

Lehigh.....	54
Haverford.....	58

Haverford—Franklin & Marshall

- 100-YARD DASH—First, Sykes, F. & M.; second, Thomas, H.
Time, 10 seconds.
- 220-YARD DASH—First, Thomas, H.; second, Sykes, F. & M.
Time, 22 3/5 seconds.
- 440-YARD DASH—First, Sykes, F. & M.; second, Van Hollen, H.
Time, 56 seconds.
- 880-YARD RUN—First, Falconer, H.; second, Jones, H. Time, 2
minutes 12 seconds.
- MILE RUN—First, Van Sickle, H.; second, Oberholtzer, F. & M.
Time, 5 minutes 7 seconds.
- TWO-MILE RUN—First, W. Bowerman, H.; second, Lanter, F. & M.
Time, 11 minutes 29 seconds.
- 120-YARD HURDLES—First, Froelicher, H.; second, Nicholson, H.
Time, 17 2/5 seconds.
- 220-YARD HURDLES—First, Roberts, F. & M.; second, McKinley,
H. Time, 28 2/5 seconds.
- HIGH JUMP—First, Froelicher, H.; second, Porterfield, F. & M.
Height, 5 feet 4 1/2 inches.
- BROAD JUMP—First, Roberts, F. & M.; second, Froelicher, H.
Distance, 21 feet 11 inches.
- SHOT PUT—First, Froelicher, H.; second, Yeager, F. & M. Distance,
38 feet 8 inches.
- POLE VAULT—First, Porterfield, F. & M.; second, Porter, H.
Height, 11 feet.
- HAMMER THROW—First, Moon, H.; second, Colebaugh, F. & M.
Distance, 113 feet.
- TOTAL—Haverford, 61; F. & M., 43.

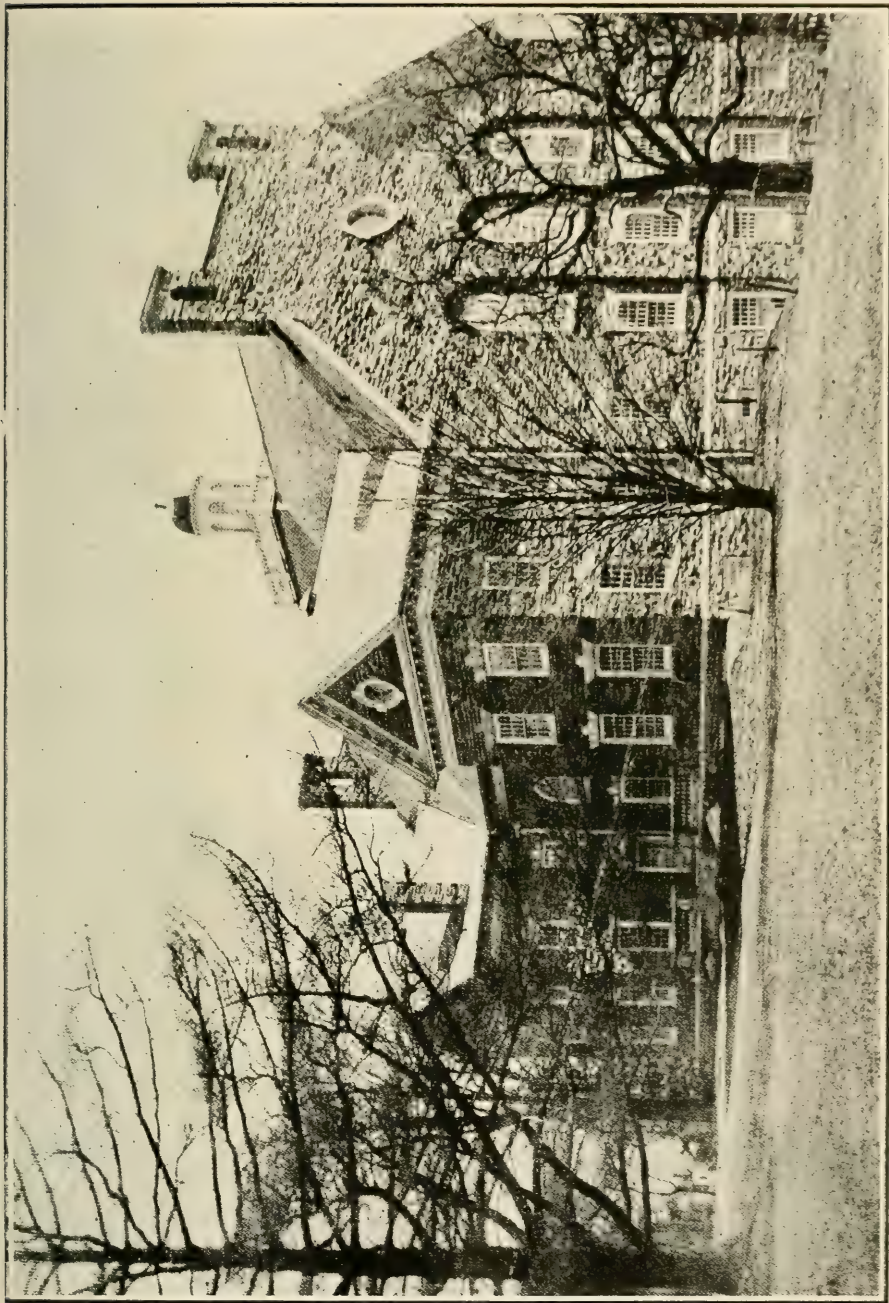
SCORE.

Haverford.....	61
Franklin and Marshall	43



<i>Event.</i>	<i>Time or Distance.</i>	<i>Made by.</i>	<i>Date.</i>
*100-Yard Dash.....		W. M. McConnell, '13..	*1910
220-Yard Dash.....	22 2-5 sec....	L. R. Thomas, '13.....	1912
440-Yard Dash.....	50 1-5 sec....	W. Palmer, '10.....	1910
Half-Mile.....	2 m. 3 4-5 sec....	E. C. Tatnall, '07.....	1905
Mile.....	4 min. 35 sec....	P. J. Baker, '10.....	1907
Two-Mile.....	10 min. 22 sec....	W. K. Miller, '06.....	1906
High Hurdles.....	15 4-5 sec....	T. K. Brown, Jr., '06....	1905
Low Hurdles.....	26 sec....	W. Palmer, '10.....	1910
Broad Jump.....	21 ft. 8 in....	F. M. Froelicher, '13....	1912
High Jump.....	6 ft. 1 in....	E. B. Conklin, '99.....	1899
Shot Put.....	41 ft. 8½ in....	F. M. Froelicher, '13....	1912
Hammer.....	123 ft. 6 in....	H. W. Jones, '05.....	1905
Discus.....	99 ft. 11 in....	R. Else, '10.....	1910
Pole Vault.....	10 ft. 7½ in....	O. M. Porter, '13.....	1912

*Equaled by L. R. Thomas, '13, 1911.



HAVERFORD COLLEGE GYMNASIUM.

Wearers of Track H

D. P. FALCONER, '12
W. S. CROWDER, '13
H. V. NICHOLSON, '13
L. R. THOMAS, '13
A. L. BOWERMAN, '12
C. T. MOON, '12
F. M. FROELICHER, '13
O. M. PORTER, '13
J. P. GREEN, '14
E. M. JONES, '14
W. G. BOWERMAN, '14

Track Numerals Awarded To

McKINLEY

GREEN

NITOBÉ

T. ELKINTON

VAN SICKLE

Tennis Department

P. C. BREWER, *Manager*

Team

L. C. RITTS, *Captain*

L. V. H. THOMAS

J. VAN SICKLE

BLISS

MINOT

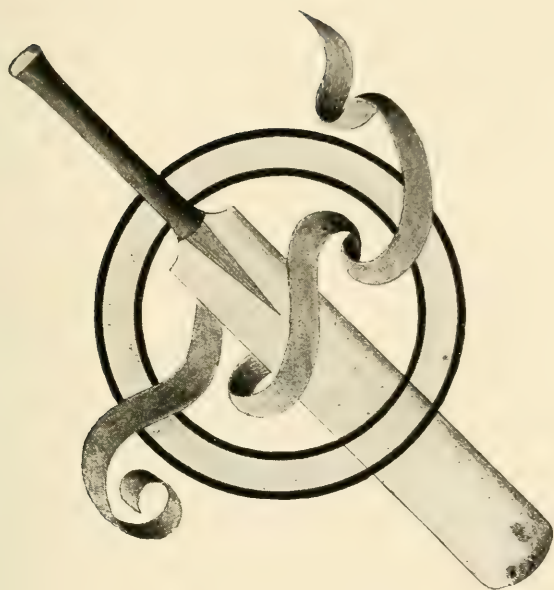
Tournaments

Haverford vs. Lehigh, 1—5.

Haverford vs. Swarthmore, 4—2.

Haverford vs. Lafayette, called off on account of rain.

Haverford vs. Delaware, called off on account of rain.



Cricket Department

L. M. SMITH, '12—*Manager*

N. H. TAYLOR, '13, N. F. HALL, '13—*Assistant Managers*

W. H. ROBERTS, JR., '12—*Captain*

GEORGE BENNETT—*Coach*

Ground Committee

W. H. ROBERTS, JR., '12

L. C. RITTS, '12

L. M. SMITH '12

N. H. TAYLOR, '13

L. R. THOMAS, '13

Cricket Schedule, 1912

First Eleven

April 20—Frankford, at home.

May 4—Philadelphia C. C., away.

May 7—Next Fifteen, at home.

May 11—Merion C. C., at home.

May 18—New York Veterans, away.

May 23—British Americans, at home.

May 25—Germantown C. C., at home.

May 30—Vet. Cricketers, N. Y., at home.

June 1—Interscholastics, at home.

June 5—Germantown C. C., away.

June 11—Pilgrims, at home.

An Intercollegiate Tournament will be played by Pennsylvania, Cornell and Haverford during the two weeks from June 8 to June 22.

Second Eleven

May 7—First Eleven, at home.

May 8—U. of P. 2d, at home.

May 18—Merion C. C., Team B at home

May 23—U. of P. 2d, at home.

May 27—Haverford School, at home.

June 8—W. Phila. C. C., Team B., away.

Third Eleven

April 12—Westtown School, at home.

April 29—Central High School, at home.

May 4—Williamson School, at home.

May 6—N. E. Manual School, at home.

May 15—Westtown School, away.

May 17—Central High School, at home.

May 21—U. of P. 3d XI, at home.

May 24—Penn Charter School, at home.

May 31—Haverford School, at home.

Freshmen

May 1—U. of P. 3d XI, at home.

May 7—N. E. Manual School, at home.

May 9—Central High School, at home.

May 13—Penn Charter School, at home.

May 29—Westtown School, away.

First Eleven

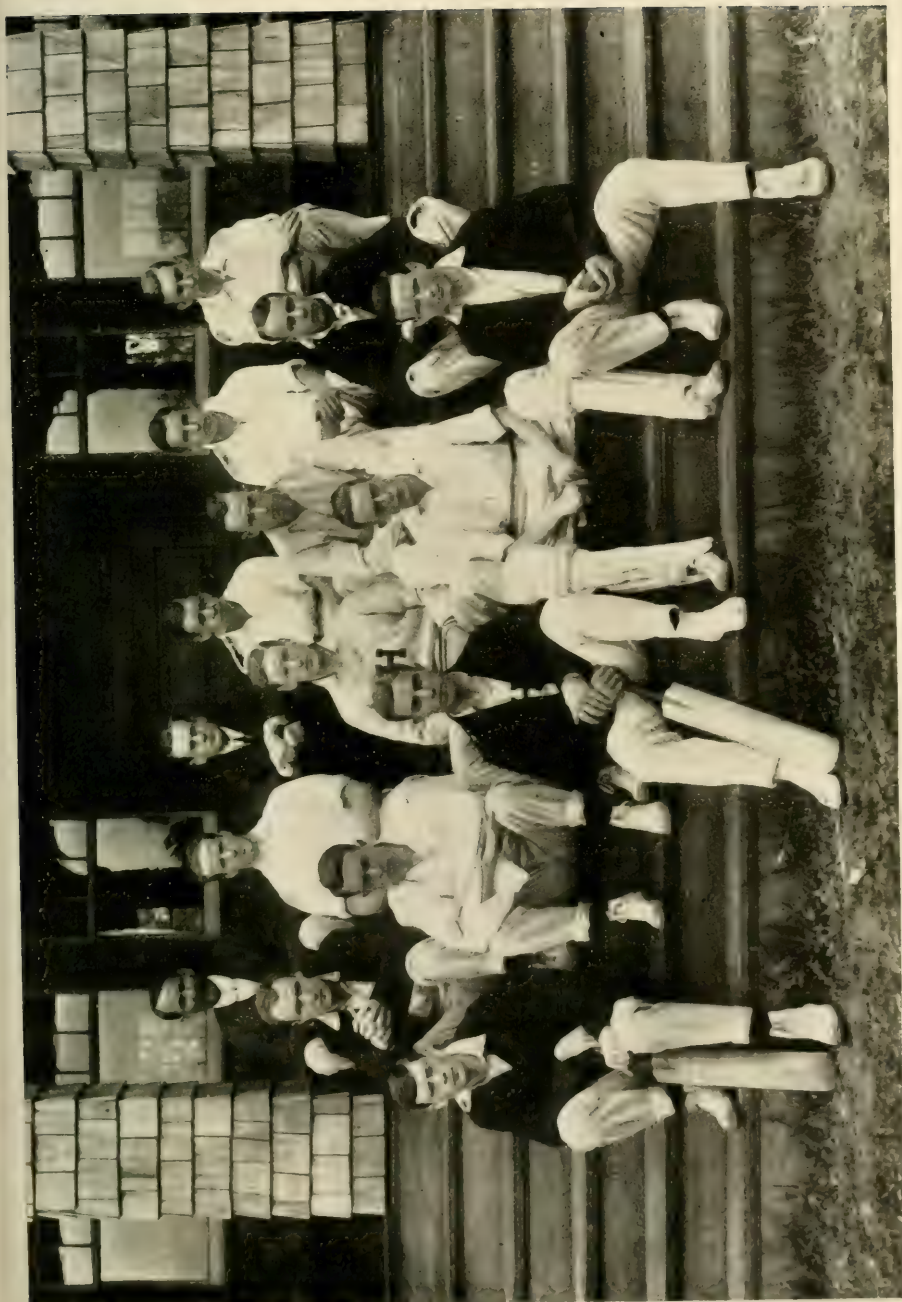
Colors—W. D. Hartshorne, Jr., '11; H. M. Thomas, Jr., '12.
Cope Prize Bat for Average—H. G. Taylor, Jr., '11, 28.83.
Congdon Prize Ball—W. D. Hartshorne, Jr., '11.
Haines Prize Fielding Belt—H. M. Thomas, Jr., '12.

Second Eleven

Class of '85 Prize Bat—W. J. Young, '11.
Class of '85 Prize Ball—L. R. Thomas, '13.
Class of '85 Prize Belt—W. J. Young, '11.
Class of '85 Prize Class Ball, 1912.

Other Prizes

Improvement Bat—George V. Downing, '14.
Shakespeare Prize Bat—F. C. Stokes, '14.
C. R. Hinchman Prize Bat—L. V. H. Thomas, '14.
Christian Febiger Prize Ball—W. D. Hartshorne, '11.
Freshman Prize Bat—L. V. H. Thomas, '14.
Freshman Prize Ball—J. K. Garrigues, '14.
Freshman Prize Cup—H. W. Seckel, '14.



CRICKET TEAM.

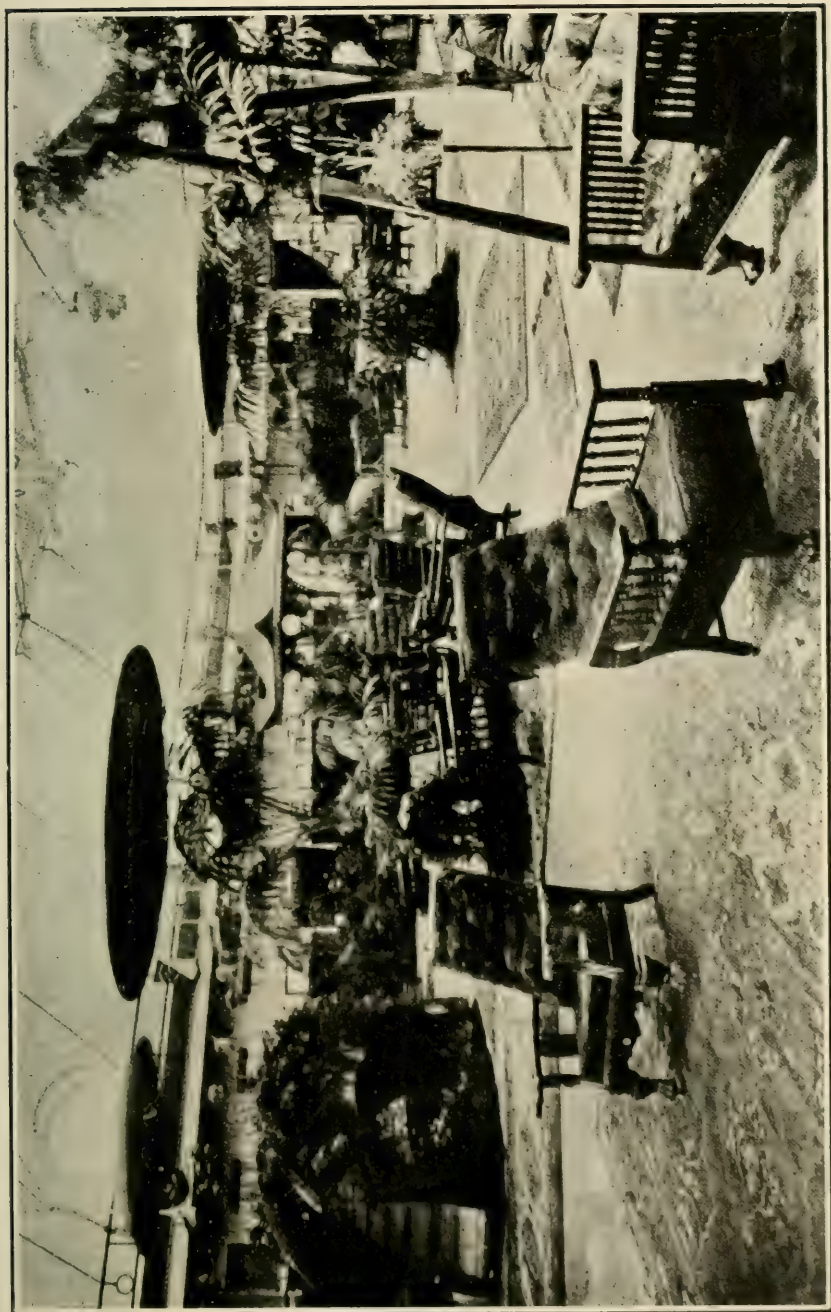


Cope Prize Bat

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Average</i>
1877—	E. T. COMFORT.....	'78.....	18.83
1878—	E. T. COMFORT.....	'78.....	10.03
1879—	SAMUEL MASON.....	'80.....	14.
1880—	SAMUEL MASON.....	'80.....	17.57
1881—	T. N. WINSLOW.....	'81.....	12.5
1882—	G. B. SHOEMAKER.....	'83.....	9.6
1883—	W. F. PRICE.....	'81.....	11.88
1884—	SAMUEL BETTLE.....	'85.....	17.25
1885—	SAMUEL BETTLE.....	'85.....	23.
1886—	G. S. PATTERSON.....	'88.....	32.8
1887—	A. G. GARRETT.....	'87.....	35.66
1888—	T. E. HILLES.....	'88.....	9.6
1889—	R. L. MARTIN.....	'92.....	13.
1890—	C. H. BURR, JR.....	'89.....	19.14
1891—	J. W. MUIR.....	'92.....	38.5
1892—	J. W. MUIR.....	'92.....	26.25
1893—	J. A. LESTER.....	'96.....	100.5
1894—	J. A. LESTER.....	'96.....	62.2
1895—	J. A. LESTER.....	'96.....	49.83
1896—	J. A. LESTER.....	'96.....	41.1
1897—	C. G. TATNALL.....	'97.....	9.85
1898—	T. WISTAR.....	'98.....	21.75
1899—	F. C. SHARPLESS.....	1900.....	26.
1900—	F. C. SHARPLESS.....	1900.....	37.
1901—	C. C. MORRIS.....	1904.....	21.89
1902—	C. C. MORRIS.....	1904.....	35.29
1903—	C. C. MORRIS.....	1904.....	50.56
1904—	W. P. BONBRIGHT.....	1904.....	31.29
1905—	R. L. PEARSON.....	1905.....	37.
1906—	A. T. LOWRY.....	1905.....	23.8
1907—	A. W. HUTTON.....	1910.....	31.6
1908—	A. W. HUTTON.....	1910.....	19.5
1909—	H. A. FURNESS.....	1910.....	47.4
1910—	H. A. FURNESS.....	1910.....	66.
1911—	H. G. TAYLOR, JR.....	1911.....	28.83

Congdon Prize Ball

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Average</i>
1877—	J. M. W. THOMAS.....	'78.....	1.11
1878—	E. T. COMFORT.....	'78.....	6.47
1879—	W. C. LOWRY.....	'79.....	5.81
1880—	B. V. THOMAS.....	'83.....	5.78
1881—	W. L. BAILY.....	'83.....	5.31
1882—	A. C. CRAIG.....	'84.....	4.30
1883—	W. L. BAILY.....	'83.....	8.00
1885—	W. F. HILLES.....	'85.....	4.50
1886—	A. C. GARRETT.....	'87.....	8.25
1887—	J. W. SHARP, JR.....	'88.....	7.86
1888—	H. P. BAILY.....	'90.....	5.47
1889—	H. P. BAILY.....	'90.....	5.86
1890—	H. P. BAILY.....	'90.....	6.50
1891—	D. H. BLAIR.....	'91.....	17.50
1892—	JOHN RONERTS.....	'93.....	7.33
1893—	JOHN ROBERTS.....	'93.....	7.90
1894—	A. P. MORRIS.....	'95.....	5.97
1895—	A. P. MORRIS.....	'95.....	6.46
1896—	J. A. LESTER.....	'96.....	6.19
1897—	R. S. WENDELL.....	1900.....	8.25
1898—	L. W. DEMOTTE.....	1901.....	5.22
1899—	W. S. HINCHMAN.....	1900.....	9.40
1900—	L. W. DEMOTTE.....	1901.....	6.00
1901—	L. W. DEMOTTE.....	1901.....	8.13
1902—	N. A. SCOTT.....	1902.....	10.92
1903—	H. PLEASANTS, JR.....	1906.....	7.49
1904—	F. D. GODLEY.....	1907.....	4.83
1905—	H. PLEASANTS, JR.....	1906.....	7.47
1906—	F. D. GODLEY.....	1907.....	8.47
1907—	J. B. CLEMENT, JR.....	1908.....	8.2
1908—	J. C. THOMAS.....	1908.....	7.46
1909—	H. HOWSON.....	1912.....	8.66
1910—	L. R. THOMAS.....	1913.....	7.1
1911—	W. D. HARTSHORNE, JR.....	1911.....	9.42



INTERIOR OF THE GYMNASIUM ON JUNIOR DAY.

Haines Prize Fielding Belt

<i>Year</i>	<i>Name</i>	<i>Class</i>	<i>Year</i>	<i>Name</i>	<i>Class</i>
1876—	C. S. CROSMAN.....	'78	1894—	F. P. RISTINE.....	'94
1877—	A. L. BAILY.....	'78	1895—	J. H. SCATTERGOOD.	'96
1878—	J. E. SHEPPARD....	'79	1896—	A. G. SCATTERGOOD.	'98
1879—	A. P. CORBITT.....	'80	1897—	A. G. SCATTERGOOD.	'98
1880—	W. F. PRICE.....	'81	1898—	A. G. SCATTERGOOD.	'98
1881—	B. V. THOMAS.....	'83	1899—	W. S. HINCHMAN...	1900
1882—	S. B. SHOEMAKER...	'83	1900—	W. V. DENNIS.....	1902
1883—	W. L. BAILY.....	'83	1901—	C. C. MORRIS.....	1904
1884—	W. S. HILLES.....	'85	1902—	A. C. WOOD, JR....	1902
1885—	W. F. PRICE.....	'81	1903—	J. B. DRINKER....	1903
1886—	J. W. SHARP, JR....	'88	1904—	H. H. MORRIS.....	1904
1887—	H. P. BAILY.....	'90	1905—	A. T. LOWRY.....	1906
1888—	C. H. BURR, JR....	'89	1906—	H. W. DOUGHTEN, JR.	1906
1889—	J. S. STOKES.....	'86	1907—	J. P. MAGILL.....	1907
1890—	J. W. MUIR.....	'90	1908—	E. A. EDWARDS....	1908
1891—	G. THOMAS, 3D....	'91	1909—	H. A. FURNESS....	1910
1892—	S. W. MORRIS.....	'94	1910—	H. A. FURNESS....	1910
1893—	W. W. SUPPLEE....	'95	1911—	H. M. THOMAS, JR..	1912

Haverford—Philadelphia Cricket Club**Philadelphia Cricket Club**

W. W. Justice, c Roberts, b Harsthorne.....	13
F. B. Harris, b Brinton.....	6
C. B. J. Dixon, b Brinton.....	12
H. R. Cartwright, b Hartshorne.....	4
P. N. Leroy, c L. V. Thomas, b Brinton.....	33
A. J. Henry, c Hartshorne, b Brinton.....	10
M. Harris, c H. M. Thomas, b Maule.....	28
J. P. Dorman, b Brinton.....	2
F. H. Hopkinson, Jr., b Maule.....	1
H. W. Middleton, b Stokes.....	3
J. Graham, not out.....	0
Extras.....	9
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Total.....	121

Haverford

W. C. Brinton, b Henry.....	21
H. M. Thomas, l b w Henry.....	7
W. Roberts, c Leroy, b Justice.....	0
L. V. H. Thomas, c Middleton, b Leroy.....	26
E. N. Crosman, Jr., b Henry.....	1
L. C. Ritts, c Henry, b Dixon.....	12
S. E. Stokes, c and b Leroy.....	28
W. D. Hartshorne, l b w Leroy.....	0
C. H. Crosman, run out.....	0
J. Downing, not out.....	0
E. R. Maule, b Leroy.....	0
Extras.....	10
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Total.....	105

Bowling Analysis**Haverford**

	B.	M.	R.	W.
W. D. Hartshorne.....	48	0	46	2
W. C. Brinton	66	0	47	5
E. R. Maule.....	32	1	10	2
S. E. Stokes.....	18	1	9	1

Haverford—Merion**Haverford**

W. C. Brinton, b Mifflin.....	1
H. W. Seckel, c and b Garrigues.....	34
L. V. H. Thomas, b Mifflin.....	10
A. L. Baily, Jr., b Oldham.....	9
H. M. Thomas, c C. H. Crosman, b Garrigues.....	10
W. H. Roberts, Jr., run out.....	26
E. Stokes, b Garrigues.....	23
L. C. Ritts, b Garrigues.....	32
E. N. Crosman, Jr., b Lee.....	6
W. D. Hartshorne, c Clement, b Garrigues.....	7
E. R. Maule, not out.....	6
Extras.....	10
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Total.....	176

Merion

J. L. Evans, not out.....	46
R. Lee, not out.....	60
C. H. Crosman, C. C. Morris, G. V. Downing, S. W. Mifflin, J. K. Garrigues, J. H. Scattergood, Oldham, L. Lee, J. B. Clement, Jr., did not bat	
Extras.....	2
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Total.....	108

Bowling Analysis**Merion**

	B.	M.	R.	W.
Clement.....	42	1	31	0
Mifflin.....	60	0	55	2
L. Lee.....	42	0	18	1
Garrigues.....	63	0	49	3
Oldham.....	30	0	13	1

Haverford

	B.	M.	R.	W.
W. D. Hartshorne	37	1	26	0
W. C. Brinton	30	0	15	0
E. R. Maule	24	0	20	0
S. E. Stokes	12	0	19	0
A. L. Baily	12	0	16	0
H. W. Seckel	6	0	10	0

Haverford 1st XI—Haverford 2d XV**Haverford 1st XI**

W. C. Brinton, retired	17
H. M. Thomas, retired.....	37
H. W. Seckel, retired.....	34
S. E. Stokes, b L. R. Thomas.....	8
A. L. Baily, run out.....	17
E. N. Crosman, Jr., hit wicket, b Lowry.....	7
W. H. Roberts, b Gummere.....	11
W. D. Hartshorne, b Webb.....	15
C. H. Crosman, not out.....	8
E. R. Maule, b Gummere.....	5
Extras.....	2
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Total.....	161

Haverford 2d XV

Dr. R. M. Gummere, b Stokes	10
E. Rice, c Thomas, b Brinton.....	3
H. M. Lowry, c Roberts, b Stokes	15
W. Webb, c Thomas, b Hartshorne.....	11
C. O. Young, run out	3
N. H. Taylor, run out.....	0
J. Ellison, 1 w, b Stokes	0
L. M. Smith, c Thomas, b Stokes	1
T. W. Elkinton, c Seckel, b Hartshorne.....	1
E. Wallerstein, c E. Crosman, b Maule.....	9
N. F. Hall, run out.....	3
Whipple, st E. Crosman, b Baily	2
Wagner, st E. Crosman, b Brinton.....	0
E. Kling, not out	3
C. Falconer, b Brinton.....	1
Extras.....	4
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Total.....	66

Bowling Analysis**Haverford 1st XI**

	B.	M.	R.	W.
W. C. Brinton	48	3	13	3
S. E. Stokes	36	0	19	4
W. D. Hartshorne.....	30	1	6	2
E. R. Maule.....	30	0	17	1
A. L. Bailly.....	12	0	8	1

Haverford 2d XV

	B.	M.	R.	W.
L. R. Thomas.....	66	1	27	1
J. Ellison	24	0	24	0
Dr. R. M. Gummere.....	48	0	40	2
W. Webb	42	1	17	1
L. M. Smith.....	30	0	23	0
H. M. Lowry.....	24	0	25	1

Haverford—New York Veterans

At New York

New York Veterans

A. Hoskings, c Ritts, b Maule.....	33
J. N. Escobae, c H. M. Thomas, b Maule.....	12
C. C. Beling, b Maule.....	1
S. Deane, b Garrigues.....	16
G. W. Hayman, b Baily.....	27
J. S. Bretz, c Crosman, b Maule.....	4
S. B. Standfast, b Baily.....	0
O. Turville, b Baily.....	4
R. J. Danby, c Stokes, b Baily.....	4
E. Turville, b Stokes.....	0
F. F. Kelly, not out.....	5
Extras.....	7
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Total.....	113

Haverford

H. W. Seckel, c Hayman, b Kelly.....	5
W. C. Brinton, c and b Hoskings.....	7
L. V. H. Thomas, b Hoskings.....	26
A. L. Baily, b Hoskings.....	0
H. M. Thomas, not out.....	6
L. C. Ritts, c and b Hoskings.....	0
W. H. Roberts, l b w Hoskings.....	1
S. E. Stokes, l b w Kelly.....	4
E. N. Crosman, Jr., b Kelly.....	0
J. K. Garrigues, c Hayman, b Kelly.....	2
E. R. Maule, b Beling.....	0
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Total.....	51

Bowling Analysis**Haverford**

	R.	W.
W. C. Brinton	12	0
S. E. Stokes	24	1
J. K. Garrigues	20	1
E. R. Maule	20	4
A. L. Baily	25	4

Haverford—Interscholastic League**At Haverford****Interscholastic League**

L. Gillespie (G. A.), b Brinton.....	15
W. Miller (C. H.), 1 b w Garrigues.....	6
Mikell (P. C.), c H. M. Thomas, Garrigues.....	4
L. Spencer (N. E.), b Brinton.....	1
J. Morrison (P. C.), b Brinton.....	5
W. Crosman (H. S.), 1 b w Brinton.....	0
F. C. Stokes (H. C.), b Hartshorne.....	22
H. Marshall (N. E.), c C. H. Crosman, b Brinton.....	29
Middleton (N. E.), b Hartshorne.....	6
Tatnall (G. A.), b Hartshorne.....	0
Conarroe (C. H.), c and b Garrigues.....	4
Findesen (C. H.), b Hartshorne.....	12
Rice (H. C.), not out.....	50
H. A. Howson (H. C.), run out.....	9
Philips (H. C.), st E. Crosman, b Brinton.....	2
Extras.....	3
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Total.....	168

Haverford

W. C. Brinton, b Mikell.....	40
H. M. Thomas, c Tatnall, b Miller.....	20
E. N. Crosman, Jr., 1 b w Marshall.....	32
W. D. Hartshorne, 1 b w Marshall.....	41
L. V. H. Thomas, c Gillespie, b Marshall.....	13
W. H. Roberts, 1 b w Mikell.....	0
L. C. Ritts, retired.....	18
A. L. Baily, retired.....	23
S. E. Stokes, retired.....	14
C. H. Crosman, not out.....	6
J. K. Garrigues, not out.....	1
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Total.....	208

Bowling Analysis

	B.	M.	R.	W.
J. K. Garrigues.....	84	2	42	3
W. C. Brinton.....	107	4	53	6
S. E. Stokes	42	1	21	0
W. D. Hartshorne	66	2	32	4
A. L. Baily	12	0	17	0

Haverford—British Americans.**At Haverford
British Americans**

Dr. Currie, c L. V. H. Thomas, b Brinton	5
J. E. Pike, b Brinton	1
E. L. Phillips, b Garrigues	33
E. Guest, c H. M. Thomas, b Garrigues	21
M. Lane, c Seckel, b Garrigues	12
Dr. Guest, b Garrigues	0
P. Morley, c Baily, b Garrigues	1
A. E. Guest, b Harsthorne	7
W. L. Long, c Seckel, b Garrigues	14
C. Redman, b Garrigues	4
A. T. B. Winslow, not out	0
Extras	7
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Total	105

Haverford

W. C. Brinton, c Pike, b Lane	0
A. L. Baily, run out	13
H. M. Thomas, b Pike	6
L. V. H. Thomas, c E. Guest, b Long	18
H. W. Seckel, c Lane, b Pike	1
S. E. Stokes, run out	4
L. C. Ritts, run out	17
W. Harrshorne, not out	34
E. N. Crosman, Jr., b Lane	1
J. K. Garrigues, b Pike	3
E. Maule, stumped Redman, b Lane	2
Extras	11
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Total	110

Bowling Analysis**British Americans**

	B.	M.	R.	W.
W. C. Brinton.....	36	2	13	2
W. D. Hartshorne.....	51	0	33	2
E. R. Maule	18	0	16	0
S. K. Garrigues	53	4	21	6
A. L. Baily.....	17	0	15	0

Haverford

	B.	M.	R.	W.
J. E. Pike.....	78	4	34	3
M. Lane.....	90	0	42	3
E. L. Phillips	12	0	11	0
W. L. Long.....	24	1	14	1

Haverford—Germantown C. C.**Haverford**

W. C. Brinton, 1 b w Oneil.....	10
H. W. Seckel, b Oneil.....	25
A. L. Baily, Jr., c Why, b Newhall.....	19
L. V. H. Thomas, c Newhall, b Oneil.....	4
H. M. Thomas, b Oneil.....	5
W. D. Harsthorne, hit wicket Oneil.....	45
S. E. Stokes, b Oneil.....	2
L. C. Ritts, c Oneil, b Beard.....	3
C. H. Crosman, b Green.....	16
E. N. Crosman, Jr., b Newhall.....	22
J. K. Garrigues, not out.....	0
Extras.....	15
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Total.....	166

Germantown C. C.

A. D. Sexton, c L. V. Thomas, b Garrigues.....	4
W. P. Newhall, b Garrigues.....	7
F. A. Green, b Garrigues.....	21
W. Myers, c E. Stokes, b Garrigues.....	3
R. F. Beard, run out.....	2
W. Oneil, run out.....	3
Lake, not out.....	29
W. Stork, b Garrigues.....	3
P. Adamson, b Garrigues.....	1
H. T. Why, b Garrigues.....	0
F. Tatnall, c and b Garrigues.....	0
Extras.....	5
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Total.....	78

Bowling Analysis**Haverford**

	B.	M.	R.	W.
F. A. Green	30	1	18	1
W. P. Newhall.....	64	0	53	2
W. Oneil.....	66	0	49	6
R. F. Beard.....	30	1	31	1

Germantown C. C.

	B.	M.	R.	W.
W. D. Hartshorne.....	36	0	40	0
S. E. Stokes.....	12	2	0	0
J. K. Garrigues	59	2	27	8
W. C. Brinton	12	0	6	0

Haverford—New York Veterans**Haverford**

W. C. Brinton, b Hoskings.....	11
H. M. Thomas, c Pendergest, b Hoskings.....	16
L. V. H. Thomas, b Hoskings.....	15
W. D. Hartshorne, b Hayman.....	16
A. L. Baily, l b w Hayman	14
E. N. Crosman, Jr., not out.....	20
W. H. Roberts, c Deane, b Hoskings.....	12
L. C. Ritts, c Taylor, b Hoskings	7
S. E. Stokes, b Hoskings.....	6
C. H. Crosman, b Hoskings.....	4
J. K. Garrigues, b Hoskings.....	2
Extras.....	5
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Total.....	128

New York Veterans

A. Gunn, c Roberts, b Garrigues.....	3
F. P. Pendergest, st E. Crosman, b Garrigues.....	0
S. Deane, b Hartshorne.....	34
A. Hoskings, b Garrigues.....	11
F. F. Kelly, c Roberts, b L. V. H. Thomas.....	13
J. S. Bretz, b Garrigues.....	0
G. H. Hayman, l b w Brinton.....	5
E. R. Hawkins, b Brinton	26
C. Taylor, c C. H. Crosman, b Garrigues.....	6
R. P. Danby, b Hartshorne.....	9
W. Webb (H. C.), not out.....	15
Extras.....	6
<hr/>	
Total.....	128

Bowling Analysis**Haverford**

	B.	M.	R.	W.
F. F. Kelly	36	0	33	0
A. Hoskings	81	3	53	8
G. H. Hayman	36	0	27	2
C. Taylor	12	0	10	0

New York Veterans

	B.	M.	R.	W.
J. K. Garrigues.....	102	4	57	5
W. C. Brinton.....	42	2	26	2
S. E. Stokes.....	24	1	8	0
L. V. H. Thomas.....	12	0	9	1
W. D. Hartshorne.....	31	2	12	2
A. L. Baily	12	0	10	0

The Athletic Cabinet

Purpose.

This group is selected from representative men in College, partly by appointment and partly by election and is organized (a) for conference upon important college athletic affairs, (b) for taking the initiative in important college innovations, and (c) for bringing into harmonious co-operation the various college athletic organizations. It shall act as college host to visiting alumni whenever opportunity presents, and shall investigate school conditions and, as far as consistent, influence school boys toward Haverford. It shall in no way influence college politics nor administer athletic finances, and shall act in advisory rather than executive capacity.

Membership.

Its members shall consist of ten members, five of whom shall be the captains of the Football, Gymnasium, Soccer, Athletic and Cricket teams respectively. Three members shall be elected each year by ballot of the retiring cabinet and the two remaining members named by the chairman (ex-officio), Dr. Babbitt. Election shall be regardless of class or other College membership.

The membership for 1911-1912 is as follows:

D. C. Murray	R. E. Miller
E. Wallerstein	L. C. Ritts, <i>Chairman</i>
L. M. Smith	D. P. Falconer
W. H. Roberts	L. R. Thomas
F. G. Smiley	W. C. Longstrech

Meetings.

Meetings shall be held upon the first Tuesday evening of each month upon the invitation of the ex-officio host, although special date may be changed upon special occasion, when conflicting with other College appointments.

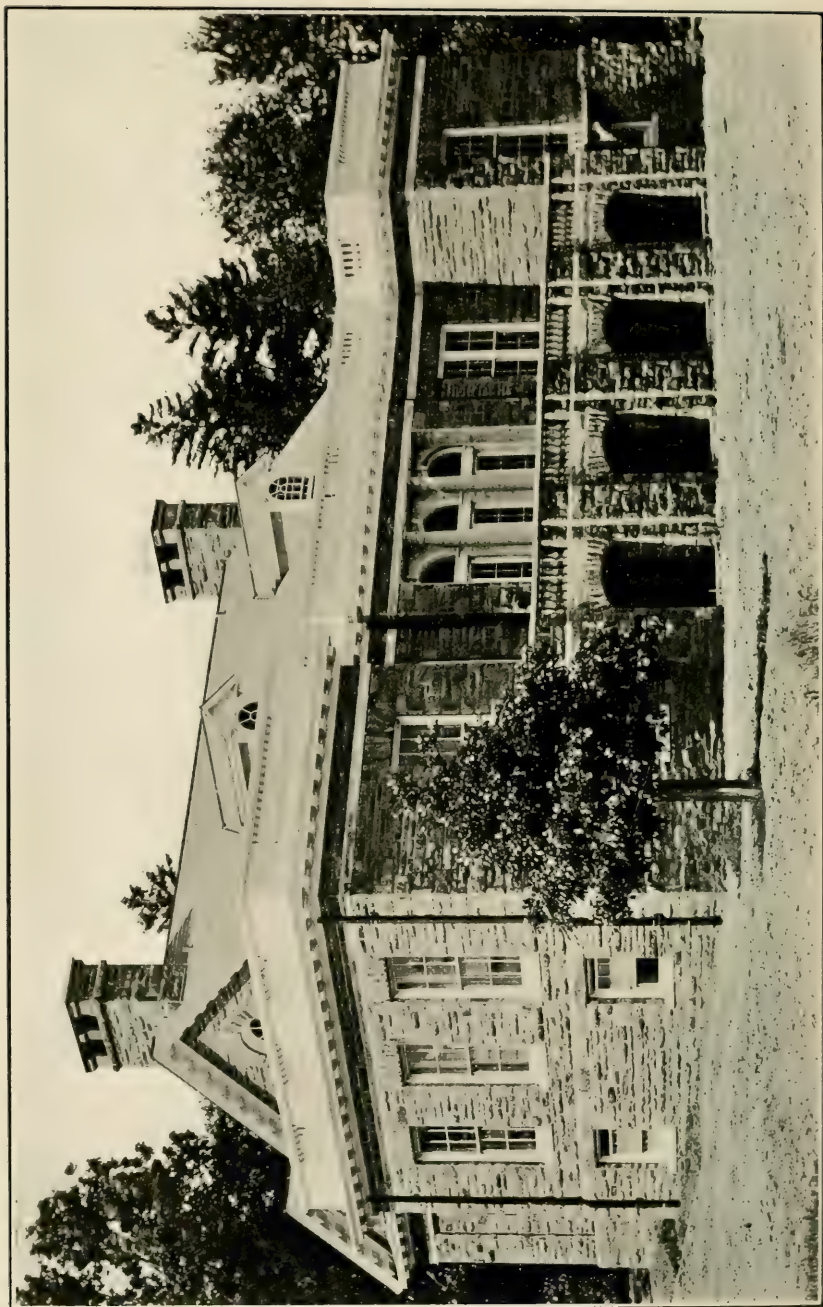
Special sessions may be arranged as need requires.

Officers.

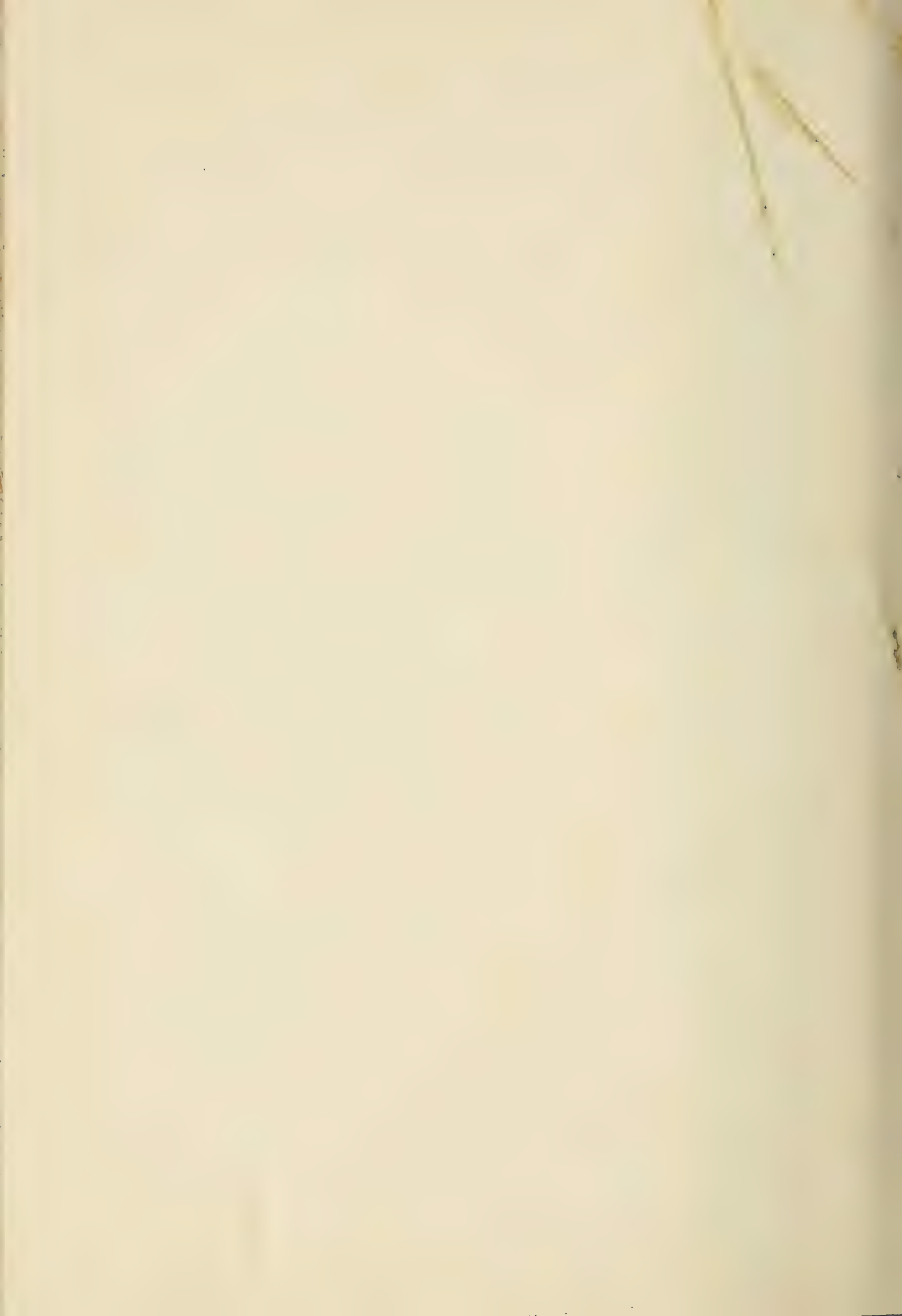
Officers shall consist of a President and Secretary elected at the first meeting of the year. These two, with the Chairman ex-officio, shall constitute the Executive Committee.

Special Functions.

The Cabinet shall direct the various interscholastic meetings at the College when so desired, shall always be ready to assist at alumni gatherings at the College, and shall act as host at an annual gathering of "Cabinet Alumni," held during May.



THE MORRIS INFIRMARY



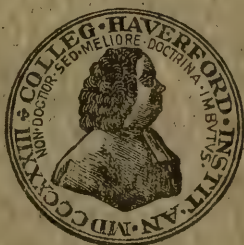
HAVERFORD COLLEGE BULLETIN

VOL. X

EIGHTH MONTH, 1912

No. 8

Alumni Number



Issued Quarterly by Haverford College,
Haverford, Pa.

Entered December 10th, 1902, at Haverford, Pa.,
as Second-Class Matter under Act of Congress of July 16th, 1894.

Proceedings

of the

Fifty-sixth Annual Meeting

of the

Alumni Association

of

Haverford College

Held in the Auditorium of the Haverford Union,

June 14, 1912.



THE Fifty-sixth Annual Meeting of the Alumni Association of Haverford College was held on Friday, June 14, 1912, in the Auditorium of the Haverford Union. The meeting was called to order about 6.30 p. m. with President Alfred C. Garrett, '87, in the chair.

On motion, duly carried, the roll-call and reading of the minutes, which had already been printed and distributed, were dispensed with.

The following report of the Executive Committee was read:

REPORT OF EXECUTIVE COMMITTEE

To the Alumni Association of Haverford College:

Your Executive Committee respectfully reports as follows:

The regular duties of the Committee have received attention as usual.

The twenty-fifth annual dinner of the Association was held at the Bellevue-Stratford Hotel on Saturday evening, January 27, 1912, and was attended by some 180 persons.

The speakers, to whom those present were indebted for addresses, were President Sharpless, Jerome D. Greene, General Manager of the Rockefeller Institute for Medical Research, of New York; Dr. Cornelius Weygandt, of the University of Pennsylvania, and Dr. William W. Com-

fort, '94, of Cornell University. We were also under obligation to the members of the College Glee Club, who added to the pleasure of the occasion by their singing. The labor involved in the arrangement and conduct of this important annual event is no small matter, and the Special Committee upon whom the burden falls, and especially its chairman, deserve the gratitude of the Association. It is necessary, as usual, to call attention to the fact that the amount of the subscription to the dinner, \$3.50 per plate, was not sufficient to meet the expenses, and a deficit of \$123.22 was paid out of the general funds of the Association. An innovation this year, tried as an experiment, was the employment of a stenographer to take down the addresses delivered. It was thought that the additional expense of \$12 might justify itself in the advantage to the Association of having a permanent record of the addresses, and that if it became a known custom so to preserve them, it might perhaps have some influence upon the character of the speeches in the future.

The Committee in charge of the arrangements for the dinner was further directed to investigate the advisability of fixing an annual date for the dinner, and it reported that the last Saturday in January, the date on which the last two dinners have been held, is not covered by any fixed engagements at the Bellevue-Stratford. The Committee accordingly reserved that date next year, *i. e.*, January 25, 1913, at the Bellevue-Stratford. It was not thought desirable, however, to obligate ourselves to a hotel for more than one year in advance. Inasmuch as the date for the dinner next year has already thus been fixed, we would recommend that the incoming Executive

Committee commence arrangements, at least so far as the obtaining of speakers is concerned, at an early date instead of waiting till late in the autumn as heretofore, and that the Committee in charge of the dinner for next year follow the practice of this year's Committee by arranging a date for 1914.

The arrangements for Alumni Day were, as usual, placed in charge of a special committee. In connection with these arrangements, your Committee would report that the Treasurer submitted to it a letter from Mrs. Francis B. Gummere, in regard to the expenses of the tea served of recent years by the Campus Club during the afternoon of Alumni Day in the Memorial Garden. Mrs. Gummere stated that the caterer's bill for the tea in June, 1911, was \$75; that she had raised by subscription \$31, and asked for a donation from the Association of \$44 to make up the balance. She also suggested that an annual donation of \$50 be made for the purpose. Your Committee felt that the cost of this tea might properly be assumed by your Association, and therefore resolved to make a donation of \$44 as requested, and to recommend to the Association at this meeting that an annual appropriation of \$75 be made for the tea in the future.

Another matter which claimed the attention of your Committee was the question of the finances of the Association. A special committee was appointed to investigate this matter, and after so doing, reported that the total amount subscribed by members is inadequate for the moderate needs of the Association, and accordingly recommended the sending to every member a notice voicing the feeling that graduates should, where their circumstances warrant, subscribe more generally and systemat-

ically, and suggesting the following scale of subscriptions:

- Graduates of one to two years' standing, \$1.00
- Graduates of two to five years' standing, \$2.00
- Graduates of five to ten years standing, \$3.00
- Graduates ten years standing, \$5.00 and upwards.

It was not intended, however, that such subscription should be regarded as dues, the Committee being entirely in sympathy with the general desire that every Alumnus should share in the activities of the Association, regardless of financial support. This notice was accordingly sent, and the usual request for subscriptions to the Alumni supper omitted, but it was not intended to alter the custom according to which Alumni bringing friends to the supper should make remittance on account of their guests.

At an early meeting of the Committee your President suggested that at present the activities of the Alumni Association and the Executive Committee consisted largely in arranging for the mid-winter dinner and Alumni Day, and voiced the feeling that perhaps a larger field of activities should be entered upon. This expression met with general response and resulted in the appointment of a sub-committee to consider and report upon the matter. The report of that committee is appended hereto and speaks for itself.

Reports from all committees have been requested for presentation at this year's annual meeting.

The deaths of the following matriculates have come to the notice of the Secretary during the past year:

Edward Bettle, Jr., '61.....April, 1912
 Howard Comfort, '70.....April, 1912
 Harry Alger, '91.....May 4, 1912
 John Stokes Morris, '91,.....September, 1911
 Joseph R. Wood, '92.....June 29, 1911
 Ernest M. Evans, '05.....June 29, 1911
 George Smith Bard, '09.....November 17, 1911

On behalf of the Committee,

EDWARD W. EVANS, *Secretary.*

REPORT OF SPECIAL COMMITTEE

The Committee appointed by the Executive Committee of the Alumni Association of Haverford College to consider the possibility of enlarging the activities of the Association report that they have held several meetings, all or some of which have been attended by the members of the Committee, and in addition by President Sharpless, Dr. R. M. Gummere '02, and W. C. Janney '98.

With respect to the purposes of the appointment of the Committee, it was stated that a feeling had arisen on the part of members of the Executive Committee that the activities of the Alumni Association might profitably be enlarged and broadened; that up to the present the chief official activities of the Association have been the necessary arrangements by the Executive Committee for the Annual Mid-winter Dinner, and Alumni Day, and matters attended to by the Committee on the Alumni Oratorical Prize and the Committee on Athletics. It had been thought that the Association contained power and possibilities for more and larger things, and that in

fact in the past much has been done for the College by individuals in an unofficial capacity. It had seemed possible, therefore, that if the Alumni Association should increase its activities, it might furnish a means by which such scattered individual efforts could be organized and made more effective.

In connection with the question as to what opportunities there might now be for such enlargements, it was suggested that it would be a good thing if the Alumni could in some way exert more influence over the undergraduate body and help raise the standards in the College in any points in which they may now be lacking.

Another thought expressed was that the appointment of certain Alumni to keep in touch and co-operate with the various undergraduate organizations and committees might furnish another channel for influence.

It was further suggested that it would be a desirable thing if the Alumni Association at large could be kept in closer touch with matters of college management and administration by the Board of Managers and Faculty, and might perhaps be informed of plans and policies in advance of their actual accomplishment, so as to afford opportunity for consideration and the formation of an alumni opinion on college subjects, not only athletic.

I. A method proposed to carry out these objects which met with general approval was the appointment by the Association of a representative committee of twenty-five members, or the enlargement of the present Executive Committee to that number, whose duty it would be to subdivide itself into several groups of visiting committees, to whom should assigned, much as is often the case with boards of managers of institutions or hospitals, the duty

of visiting the College at the times of public events, as well as on ordinary occasions, who, in addition to a free interchange of views on current college topics amongst themselves, would be expected to mingle with the undergraduates and faculty, and obtain their points of view and opinions on college matters. They would further be expected to formulate and present written reports of these visits to stated meetings of the whole Committee, which would meet several times a year. This in turn would present to the Annual Meeting of the Association a written report covering its activities and recommendations.

If this plan were faithfully carried out by a carefully appointed committee, we believe that:

(1) There would grow up a closer bond and better understanding between the undergraduates and the Alumni.

(2) The Alumni body would be made more homogeneous by the closer association in this service of older and younger Alumni, which in itself should prove valuable.

(3) There would be developed an organized force, now existing only in a disorganized way, which would tend to hold and make use of many suggestions that are now lost sight of or never heard by the authorities.

(4) The formation of a live graduate opinion on college subjects of serious import would result.

(5) Individuals by this stimulus would be interested in, and brought into the service of the College who otherwise might not have been heard of in this connection.

II. Another plan considered was the establishment of a Graduates' Magazine. A sufficiently conservative method of making the experiment was suggested to justify a recommendation in favor of it. This is that the Alumni

Association shall take over as its publication the existing *College Bulletin*. President Sharpless has expressed his approval of this course. Except in the case of the Alumni number, the expense of this publication is now borne by the College. The College would still be responsible for the number containing the report of the managers and that containing the catalogue; probably also the Athletic number (with perhaps some additions). The number containing the proceedings of Alumni Day could be continued by us as is now the case. It is believed that a proper editor can be secured—an alumnus residing at or near the College—who could readily collect enough matter for the enlargement of the existing numbers referred to, as well as provide for at least one additional number, and probably more. It is the opinion of President Sharpless and certain others in closer touch with college matters than many of us, that the result of such an action will be distinctly beneficial, as indicating the desire of the Alumni Association to have its own "organ" in order to insure the publication of matters in which Alumni should be interested, and as to which they should be informed; also the publication of occasional valuable addresses or papers that would not otherwise be preserved. It is believed that if such a publication can be made successful, it will be a means of creating and crystalizing a correct Alumni opinion on College affairs.

The Committee therefore recommends:

I. That the incoming Executive Committee be directed to appoint a committee to be known as the Committee on College Affairs, to consist of such number as shall seem advisable, and to include the members of the Executive

Committee. The duties of such committee shall be to subdivide itself into several groups of visiting committees, which shall be assigned to visit the College from time to time and upon occasions of public events for the purpose of mingling with undergraduates and faculty. Such visiting committees shall present written reports of their visits to stated meetings of the whole Committee to be held several times during the year, and the whole committee shall in turn present to the annual meeting of the Association a written report covering its activities and recommendations.

II. That the incoming Executive Committee be directed to give continued consideration to the proposed plan for taking over the *College Bulletin* as a publication of the Association with full power to act, if the necessary funds and a proper editor can be secured.

On behalf of the Committee.

ALFRED G. SCATTERGOOD, *Chairman*.

ALFRED C. GARRETT,

PARKER S. WILLIAMS,

EDWARD W. EVANS.

PHILADELPHIA, June 7, 1912.

The report was accepted, and, on motion, duly carried; an annual appropriation of seventy-five dollars was made for the expenses of the afternoon tea served in the Memorial Garden on Alumni Day, and the recommendations of the sub-committee with respect to the enlarging of the activities of the Association were referred to the incoming Executive Committee with power to act.

REPORT OF COMMITTEE TO NOMINATE MEMBERS

The Committee to Nominate Members to the Association presented the following names:

Clifford C. Collings, '08.
Herbert Van Buren Gallager, '11.
William H. Gardener, '11.
William L. Kleinz, '11.
Edwin A. Russell, '11.
George W. Mixter, Jr., '11.
Gibson Smith, '11.

On motion, duly carried, the Secretary was instructed to cast an affirmative ballot for the election to membership of the gentlemen nominated.

On motion, duly carried, the following report of the Treasurer was accepted:

TREASURER'S REPORT

A. G. SCATTERGOOD, *Treasurer, in Account with Alumni Association of Haverford College, June 14, 1911, to June 12, 1912.*

Dr.

To balance on hand June 14, 1911..... \$169.65

To *Annual Subscriptions*:

1 for 1908..... \$5.00

1 for 1909..... 5.00

11 for 1910..... 36.00

155 for 1911..... 679.00

135 for 1912..... 590.00

————— \$1,315.00

To 22 Donations for Alumni Day, 1911..... 57.00

Interest on deposits..... 2.65

————— 1,374.65

\$ 1,544.30

CR.

By *Alumni Day, 1911:*

Supper.....	\$515.00	
Contribution towards expenses of		
Campus Club Lunch in afternoon	44.00	
Band.....	69.08	
		<hr/> \$628.08

By *Alumni Day, 1912:*

Printing, postage, addressing, etc.....	58.19	
Printing and distributing 1,175 copies of		
Alumni number of <i>College Bulletin</i>	51.50	
Deficit on Midwinter Dinner.....	123.22	
Books for Prize for Oratory, 1911.....	45.93	
Medal for Prize for Oratory, 1912.....	4.00	
Lettering tablet and framing pictures for		
Cricket Pavilion.....	6.95	
Sundry postage, stationery, printing and		
stenography.....	38.45	
		<hr/> \$956.32
Balance on hand June 12, 1912.....	587.98	
		<hr/> \$1,544.30

Examined and found correct:

JOHN M. OKIE,	}	<i>Auditing Committee.</i>
JOHN W. CADBURY, JR.,		

PHILADELPHIA, June 13, 1912.

The following report presented by the Committee to nominate officers and an Executive Committee was accepted on motion duly carried, it being understood that the acceptance of the report included the election of the various nominees to their respective offices:

REPORT OF COMMITTEE TO NOMINATE OFFICERS.

To the Alumni Association of Haverford College:

We respectfully submit the names of the following gentlemen for officers and members of the Executive Committee for the ensuing year:

President—Parker S. Williams, '94.

Vice-President—Miles White, '75.

Stanley R. Yarnall, '92.

L. Hollingsworth Wood, '96.

Treasurer—Alfred G. Scattergood, '98.

Secretary—Joseph H. Haines, '98.

Executive Committee—Edward T. Comfort, '78.

Horace E. Smith, '86.

J. Stoddell Stokes, '89.

J. Henry Scattergood, '96.

William W. Justice, Jr., '00.

John L. Scull, '05.

William H. Roberts, Jr., '12.

On behalf of the Nominating Committee,

M. E. LEEDS, *Chairman*.

To avoid unduly lengthening the meeting the report of the Committee on Athletics was presented informally by the Chairman, Joseph W. Sharp, Jr., '88, the full report filed being as follows:

REPORT OF ATHLETIC COMMITTEE**CRICKET.**

At the request of the University of Pennsylvania the Intercollegiate Schedule of Matches was postponed until Saturday, June 15, and the week following, as arrangements had been made to bring down two Canadian teams at that time, the University of Toronto and McGill University. Unfortunately word has but recently been received that these teams cannot come and so this interesting cricket tournament of an international character is reduced to the match with the University of Pennsylvania. The game was won by Pennsylvania.

Haverford had been looking forward to making a Canadian trip this year, but gladly gave this up in order to go in for what stood for the best interests of cricket.

The First XI played ten games; won six, lost one, tied one with New York Veterans, and drew one.

The Second XI played four games; won two, lost one, and tied one.

The Third XI played a good list of games also.

Early in the season a particularly enthusiastic cricket meeting was held in the Cricket House on Cope Field and the old "Grads" spoke feelingly of the cricket of their day, and were glad to hear the favorable report of Captain Roberts on the condition of the game in the College this year.

FOOTBALL.

The 1911 games were contested with the usual vigor—a mild word to describe the physical strain that players are called upon to exert! We *try*, as we grow older, to convince ourselves that the game makes for the ultimate

good. We are convinced that here at Haverford, at least, it is in safe hands and will not be allowed to run away with our traditional sporting instincts.

This year's eight games were as follows: Victories over College of Pharmacy, Delaware, Franklin and Marshall and Stevens. Defeated by Rutgers 6 to 10; Lehigh 12 to 0; Trinity 24 to 6; and Bucknell 15 to 0.

A new Coach, Keough, of the University of Pennsylvania, has been engaged for the coming year.

It is with sincere regret that we record the death of last year's Coach, "Jack" Guiney.

SOCCER.

This all-year sport continues to hold the interest of the students and it gives pleasure and healthful exercise to a greater number than ever before.

We failed to gain the Intercollegiate Championship, it going this year to Yale.

We tied points with Pennsylvania and Harvard, but owing to goal averages were placed in fourth place, standing ahead of Columbia and Cornell.

TRACK.

The meets with New York University, Lehigh University and Franklin and Marshall were all victories for Haverford, and the team is certainly to be congratulated upon their excellent showing.

Four new college records were made this year, as follows:

Broad jump.....	F. M. Froelicher, '13.
Shot put,.....	F. M. Froelicher, '13.
220 yard dash,.....	L. R. Thomas, . . '13.
Pole vault,.....	O. M. Porter, . . '13.

GYMNASIUM.

The Gymnasium exhibitions and contests attract many Alumni, neighbors and school boys and should be the means of bringing many boys to Haverford.

The team defeated Lehigh; was beaten by Pennsylvania by a narrow margin, and held an interesting exhibition with Yale, Princeton and Pennsylvania. The Annual Intercollegiate Meet was held this year at Haverford and Yale was victorious over fourteen colleges entered.

The Interscholastic Meet was, as usual, much appreciated by many boys from numerous preparatory schools.

Dr. Babbitt, ably assisted by undergraduates, made an innovation this year when he successfully carried out "A Spring Opening Day" for Haverford sports.

The Alumni upon invitation came out in large numbers, and it is hoped to make this an annual feature. We would urge the Alumni to come out again next year and enter into their favorite sport, or coach the undergraduates and intrude themselves generally upon the hospitality of the College and of the undergraduate body.

Recently announcement has been made by Yale University that they will set aside eighty-five acres for their athletic fields, in an endeavor to provide playing facilities not only for the college teams, but also for the students at large. We would call attention to the importance of giving consideration to this subject now, here at Haverford, with the idea of adopting a plan to move towards as the future requirements of growth in our athletic fields demand. We believe it is best for every student to go into outdoor games, not only to *cheer*, but

to *play*, and we would again urge the amplification and concentration of our athletic fields.

Respectfully submitted,

JOS. W. SHARP, JR., *Chairman*.

Following the presentation of the report, Dr. Babbitt spoke of the desirability of improving the equipment of the athletic field, which he regarded as inferior to other college equipment. He stated that a committee of the Class of 1912 had tentatively worked up a plan for such improvement, including the erection of a concrete grand stand, making the track of standard length, providing a soccer field, and improving the roadways leading to the athletic field. The committee had already secured pledges of a certain amount of money for the purpose, and he suggested the appointment of an Alumni committee to act with the class committee. Robert Miller, of the Class of 1912, supplemented Dr. Babbitt's remarks by the statement that the undergraduate college body as a whole was back of the plan, and that about \$2,000 had been raised. He suggested that an Alumni committee be appointed by the Chairman of the Athletic Committee, Joseph W. Sharp, Jr. Alfred G. Scattergood, '98, urged that in making such a plan the improvement of the cricket field should receive not less and perhaps more consideration than other athletic equipment. On motion, duly carried, the entire matter, including the improvement of the cricket field, was referred to the Athletic Committee for consideration in conjunction with the committee of the Class of 1912.

The following report of the Committee on the Alumni

Oratorical Prize was read and accepted, and the medal was presented by President Garrett to Mark Balderston. '12, the winner of the contest.

REPORT OF COMMITTEE ON ALUMNI ORATORICAL PRIZE

To the Alumni Association of Haverford College:

The Committee on the Alumni Oratorical Prize respectfully reports:

The annual contest for the Alumni Prize in Oratory was held in the Auditorium of the Haverford Union on Tuesday evening, May 21, 1912, following the contest in extemporaneous speaking for the Everett Medal.

The following members of the Committee were present: Messrs. Alfred Percival Smith, Edward Y. Hartshorne, Walter Brinton, and the Chairman.

Messrs. William S. Ashbrook, Henry W. Moore and Charles Sinkler acted as judges.

The contestants and the subjects of their orations were as follows:

George Montgomery, Philadelphia, Class 1913,

"The Present Unrest"

Oliver Moore Porter, Philadelphia, Class 1913,

"The Preservation of Our Forests"

Joshua Alban Cope, Morton, Pa., Class 1912,

"The Place of Athletics in College Life"

Mark Balderston, Colora, Md., Class 1912, "The Issue"

Joseph Moorehead Beatty, Jr., Bryn Mawr, Pa., Class 1913,

"The Permanency of the Law"

Mr. Ashbrook announced the decision of the judges awarding the prize to Mark Balderston, with "Honorable Mention" to Oliver Moore Porter.

The audience was even smaller than usual. This may have been due to the warmth of the evening or to the lectures and entertainments reported to have occupied so many evenings during the past college year for the students and their friends. The character of the contest was deserving of more auditors.

Mr. Price, who has had charge of the work of forensics at the College during the past year, is entitled to congratulation for the evidences of his training and high praise is due to each of the contestants. All did well. Some reached what the committee and the judges considered a very high standard. It was satisfactory to the committee to see such marked individual interest and effort in spite of the lack of support and encouragement which would have been afforded by a larger attendance.

On behalf of the Committee,

PARKER S. WILLIAMS, *Chairman.*

MAY 31, 1912.

The Committee on the Hall of Fame in the Cricket Pavilion reported as follows:

REPORT OF COMMITTEE ON HALL OF FAME IN CRICKET PAVILION

To the Alumni Association of Haverford College:

The Committee on Hall of Fame in Cricket Pavilion, appointed at your last annual meeting, reports that it has had repaired and placed in the Pavilion during the past year a tablet for the Eleven of 1911, and framed pictures of the captains of the Elevens of 1910 and 1911. The cost of this work was \$6.95.

It is recommended that the usual amount of five dollars be appropriated for the use of next year's Committee.

On behalf of the Committee,

A. G. SCATTERGOOD, *Chairman*.

PHILADELPHIA, June 5, 1912.

On motion, duly carried, the report was accepted with approval of the appropriation recommended.

The Chairman of the Committee on the Collection of Class Photographs, Arthur N. Leeds, '89, reported for the Committee that the collection had been completed and mounted in a large album, which he presented for inspection, at a cost of \$285. It was stated that through the efforts of Henry Cope, '69, all but about \$50 of this amount had been pledged by various Alumni as contributions to meet the expense.

Edward Y. Hartshorne, '81, recommended the consideration of the question of having an Alumni representative on the Board of Managers of the College. On motion, duly carried, the incoming Executive Committee was directed to take up the matter.

The meeting then adjourned.

EDWARD W. EVANS, *Secretary*.

COMMITTEES FOR THE YEAR 1912-13

Appointed by the Incoming President Subsequent to the
Annual Meeting, June, 1912

COMMITTEE TO NOMINATE MEMBERS TO THE ASSOCIATION.

Richard T. Cadbury, '72	Oscar M. Chase, '94
<i>Chairman</i>	Walker C. Janney, '98
Henry Cope, '69	William M. C. Kimber, '04
Hugh Leslie, '87	Cecil K. Drinker, '08
	Paul C. Brewer, '12

COMMITTEE TO NOMINATE OFFICERS AND AN EXECUTIVE
COMMITTEE.

Thomas Evans, '89	Jonathan M. Steere, '90
<i>Chairman</i>	Arthur V. Morton, '93
William L. Bailey, '83	Alfred C. Maule, '99
Morris E. Leeds, '88	Edward W. Evans, '02

COMMITTEE ON ALUMNI ORATORICAL PRIZE.

Edward Y. Hartshorne, '81	Alfred Percival Smith, '84
<i>Chairman</i>	Louis J. Palmer, '94
Walter Brinton, '81	Harold Evans, '07

COMMITTEE ON ATHLETICS.

Joseph W. Sharp, Jr., '88	Alfred M. Collins, '97
<i>Chairman</i>	Dr. Francis B. Jacobs, '97
Henry Cope, '69	Alfred C. Maule, '99
W. C. Lowry, '71	Dr. Frederic C. Sharpless, '00
Dr. Thomas F. Branson, '89	Richard M. Gummere, '02
Charles J. Rhoads, '93	C. Christopher Morris, '04
J. Henry Scattergood, '96	Dr. James A. Babbitt

COMMITTEE TO AUDIT TREASURER'S REPORT.

John W. Cadbury, Jr., '01	Morris A. Linton, '08.
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COMMITTEE ON HALL OF FAME IN CRICKET PAVILION.

Alfred G. Scattergood, '98	Harold Evans, '07
<i>Chairman</i>	James S. Ellison, '15.

